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Tender Heart High School
Computer Class: VIII 07.10.2024 Topic: Networks Teacher: Probhdeep kaur

Good Mooning Students
Students this lesson is of Class VIII, for the Subject of Computers. Topic is "Networks".

Networks is a group of interconnected people or things. In our daily life, we come across different types of networks, such as roads, railways, communication network Network of Banks across the country, Network of Schools, hospitals all over the country. Similarly, computer networks that connect millions of computers together. They have extended the power of a computer beyond the expanse of a room. Internet is an outcome of cyber metworking only.

## Computer Network and Its Components

Computer network, two or more computers that are connected with one another for the purpose of Communicating data electronically. Besides physically connecting computer and communication devices, a nerwork system serves the important function of establishing a conesive architecture that allows a variety of equipment types to transfer information. The computers in a network can communicate with each other as well as work independently.

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Each computer in a network is called a Mode. One of these nodes acts as a sender that transmits the information to other nodes in the network known as Receivers. These computers are linked with each other through some medium such as caples, telephone lines, radio waves or infrared light beams.

There are 5 basic components that are used by a computer network as a data communication System:

1. Message: This is most useful asset of a dada communication system. It is the information to be communicated. It can contain text, pictures, audio, video etc.

- 2. Sender: To transfer message from Source to destination, Someone must be there who will play role of a Source sender plays part of a Source in data Communication system. It is simple device that sends data message. The device could be in form of a computer, mobile, telephone, laptop, video camera, or a workstation, etc.
- 3. Receiver: It is destination where finally message sent by source has a device that receives message.

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same as sender, receiver can also be in form of a computer, telephone, mobile, workstation, etc.

4 Transmission Medium: In entire process
of data communication
there must be something which could act as
a bridge between sender and receiver;
Transmission medium plays that part. It
is physical path by which data or message
travels from sender to receiver.
Transmission medium could be guided
with wires or unguided that is without
wires Example: twisted pair cable,
fiber optic cable, radio waves, microwaves etc.

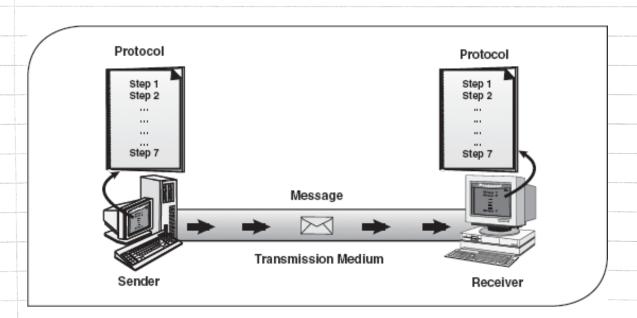
5. Set of rules (Protocol): To govern dada communications, various sets of rules had been already designed by the designers of the Communication Systems, which represent a kind of agreement between Communicating devices. These as defined as protocol. In simple terms, the protocol is a set of rules that govern data communication. If two different devices are Connected but there is no protocol among them,

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there would not be any communication between those two devices. Thus the protocol is necessary for data communication to take place.

Sending an e-mail is the typical example of data communication system.



Above figure show you all the five components that are used by computer network as a data communication system.

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Computer

Teacher: Prabhdeep Kauz

Good Morning Students
Students. this lesson is of Class VIII, for the Subject of Computers. Topic is "Networks". Today we are going to cover Advantages of Networking

Advantages of Networking

Netwooking in computers brings efficiency, economy and effectiveness in an organisation

- 1. Central Storage of Data: files can be stored on a central node that can be Shared and made available to each and every user in an organization.
- 2. Anyone can connect to a computer network: There is a negligible range of abilities required to connect to a modern computer network. The effortlessness of Joining makes it workable for even youthful kids to start exploiting the data.
- 3. Faster Problem-Solving-Since an extensive procedure is disintegrated into a few littler procedures and each is taken care of by all the associated gadgets, an explicit issue can be settled in lesser time.
- 4. Reliability: Reliability implies backing up information. Due to some reason equipment crackes, and so on, the information gets undermined or Inaccessible on another workstation for future use, which prompts smooth working and further handling without interruption.
- 5. His highly flexible: This innovation is known to be truly adopted adaptable, as it offers clients the chance

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to investigate everything about fundamental things, Example, Programming without influencing their usefulness.

6. Security through Authorization: Security and protection of information are additionally settled through the System. As Just the System Clients are approved to get to specific records or applications, no other individual can crack the protection or security of information.

7. It books storage capacity: Since you will share data, records, and assets with other individuals, you need to guarantee all information and substance are legitimately put away in the framework with this systems administration innovation you can do the majority of this with no issue, while having all the space you require for capacity.

8. Reduction in Hardware costs: In a network, the hardware devices that are not used very often, like moderns, printers scanners, CD-writers etc can be shared. This reduces the cost of the hardware

q. Efficiency: In a network, the deletion, modification or upgradation of the Software I data is to be done at a single point only This brings more efficiency and effectiveness into the working system.

10. Redundancy: A network reduces the need for hard copies of all documents By Sharing the soft copy of a file over the network, the need to share paper copies of reports or any other information can be eliminated or greatly reduced.

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	Subject Jeacher: Probhdeep kour	<b>J</b> . 	•
	Class: VIII Subject: Computer		
	Networking Media		
-			
	Network media refers to the commu		7
	channels used to interconnect		
	a computer network we can also	Say Netu	)07K
	media is the actual path over	which or	~~ )
	electrical signal travel as it more component to another. Com	$\frac{1}{2}$	و ا ار
	of network media are:	TOTT TYPE	•
	amendan le para en la base en		
	Transmission	•	
	en en la la resolución de dia en	.;	
,	[Color Modica]	ded Media	
	Guided Media Unguic	The mean	
	Twisted Coaxial Optical Radio M	ico Info	besc
	Pair Cable Cable Fiber Cable Wave	mare [	
			. )_
	Guided Media: Guided media, which are th	ose that po	ided
	a conduit from one device to another, pair cable, coaxial Cable, fibre optic cable.	A signal	15104
	travelling along any of these media is	directed ar	nd
	Contained by the physical limits of the mediu	m. Guided M	10dig
	ic also known as Bounded Modia Transmiss	SION.	
	Tricted Paix Cable: is often used f	or telebro	NE TH
1	is and modern Finemed	METWOOKS	, 71
	is a kind of wining in which two condu		7

Jender Heart High School, Chandigarch Class: VIII Computer

Teacher: Poabhdeepkauz Single circuit are twisted together. But nowa days

we are using Ethernet cable for wived networks.

This cable resembles like twisted pair cable but is

Is larger than the phone cable (twisted pair) and has

eight whoes. The advantage of these cables is that they

have less power consumption but the drawback with

these cables is that the computer requires an

Ethernet adapter cord on the motherboard to

Connect the Ethernel Cable. There are mainly two

types of Ethernet cable

Crossover cable: It is basically designed for connecting two computers without a hub or router.

Straight-through cable: This type of cable has got both its ends identical to each other. It is used to connect

computer to a router or a switch

2. Coaxial cables: Coax, short for coaxial is a type of cable used to transmit data, the internet, video and voice communications. A coax cable is made up of an aluminium and copper shield with an outer plastic Jacket

with the dielectric insulator helping to minimize Signal loss because of its good structure it has high

bandwidth and greater transmission capacity. It is

relatively in expensive and can transmit data at higher rates. It also provides better immunity against

electromagnetic disturbances. The only disadvantage

with coaxial cable is its installation and maintenance costs. The two types of coaxial cable are:

I. Base band: mainly used for LAN and has quick transmission.

II. Broadband: used for longer distances and toansmits multiple signals and a time.

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Teacher: Prabhcleep kaur 3. Optical fibre Cable: A fibre-optic cable is composed of very thin strands of glass or plastic known as optical fibrers. The optical fibre cables carry information in the form of data between two places using optical or light based technology. A fibre optic cable is highly resistant to signal inteference and provide better data transmission by providing high bandwidth. Fiber offers many advantages, the prime ones being higher bandwidth and reach. And the disadvantage of fibre optic cable is that it is fragile and the maintenance cost is high.

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### "Transmission Media"

Unguided Media / Wiveless Networking Technology

1. Radio wave: Radio waves are the electromagnetic waves that are transmitted in all the directions of free space. Radio waves are omnidirectional that is the signals are propagated in all the directions.



2. Microwave Transmission: Micro waves are the electromagnetic waves having the
range from 1GHz to 1000 GHz. Microwaves are unidirectional
as the sending and receiving antenna is to be aligned,
that is the waves sent by the sending antenna are
narrowly focussed.

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Infrared Transmission: Infrared is used for short range Communication such as data

transfer between two cell phones, Tv remote operation, data transfer between a computer and cell phone resides in the same closed area. Technology covers approximately 5 meters of distance. Infrared network signals cannot penetrate walls or other obstructions and work only in a direct line of sight.

Infrared waves

LONGER WAVELENGTH

4. Bluetooth: It is a communication technology that uses low power radio waves to connect electronic devices wirelessly. It establishes short-range Communication between phones, computers and other network devices. It is mainly used for personal area networks with a maximum transmission range upto 240 meters depending on the bluetooth version in use.

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5. Wi-FI: Wi-Fi Stands for Wireless Fidelity. It creates
a wireless Local Area Networks that uses
raclio waves to send the information. A secure,
reliable, and fast wireless connection is established
between the electronic devices and the internet
by using this technology.

### TYPES OF NETWORKS

Types of Computer Networks

PAN LAN CAN MAN WAN

Personal Local Area Cluster MetroPolitan Wide

Area Network Network Area Network Area Network

1 PAN: A personal area network is a computer network

Por interconnecting electronic devices within an

individual person's workspace. A PAN provides data

transmission among devices such as computers,

smartphones, tablets and personal digital assistants.

Personal area networks can either be wired or

wireless.

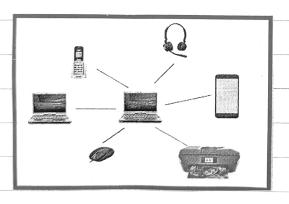
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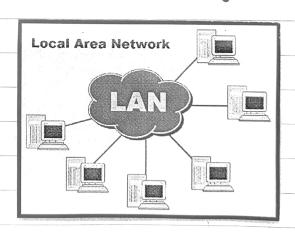
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2. LAN: A local area network is a computer network that interconnects computers within a limited area such as a residence, school, laboratory, university capus or office building. The data transmission speed is slow as compared to WAN. Since LAN is operated in a small area, it can be controlled and administered by a single person or an organisation.





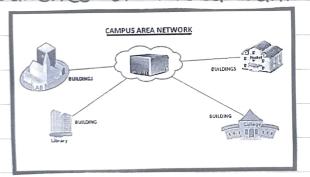
3. CAN: A Campus area network is a computer network that spans a limited geographic area. CANs interconnect multiple local area networks within an educational or corporate campus. Most cans connect to the public internet. This network covers an area smaller than MAN.

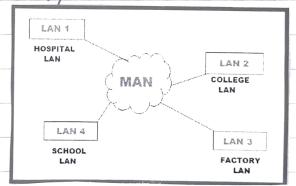
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4. MAN: A metropolitan area network is a computer network that interconnects users with computer resources in a geographic region of the size of a metropolitan area. The most common example of MAN type network is the cable television branches of a local bank in a city.





Office A

5. WAN: A wide area network is a telecommunications network that extends over a large geographic area. Wide area networks are often established with leased telecommunication Circuits. The usage of WAN is limited to very large organisations and government agencies. The main characteristics of WAN is that it requires a public telecommunication media to transfer data. The best example of WAN is ATM facility and National and Multinational bank Customer Services

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Class: VIII

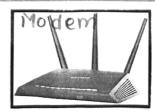
Subject: Computer

Teacher: Robhdeep

### "Networking Devices"

Networking Equipment or computer networking devices which are required for communication and intexaction between devices on a computer network. These devices work at different segments of a computer network, performing different tasks 1. Network Hub: A hub is the most basic networking device that connects multiple computers or other network devices together fach connection is called a post. A computer which intends to be connected to the network is plugged in to one of these posts. when the hub receives data at one of its posts, it distributes the data to the other ports in the networks. A hub sends all the data it receives to all the connected posts. 2. Modem: Modern is a device that enables a computer to send or receive data over telephone ox cable lines. The data Stored on the computer is digital whereas a telephone line or Cable wire can transmit only analog data. The main function of the modern is to convert digital Signal into analog and analog to digital Modern Stands for Modulator and Demodulator Moderns are available in two categories: Internal Modern and External Modern.





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3. Switch: Switches are networking devices
operating at layer 2 or a data link layer of the
OSI model (open systems interconnection). They
connect devices in a network and use packet
Switching to send, receive or forward data
packets or data frames over the network.
A switch has many ports, to which computers
are plugged in.
Der Baba haba maa
Switch
4. Repeater: Repeaters are network devices
operating at physical layer of the osi model
that regenerate an incoming signal before
retransmitting it. They are incorporated in
networks to expand its coverage area. They
are also known as Signal boosters.
Repeater
5. Router: A router is a notworking device
that forwards data packets between computer
networks. Routers perform the traffic directing
functions on the Intermet, such as a web
page or email, is in the form of data packets.

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6. Gateway: A gateway is a network node that forms
a passage between two networks apprating
with different transmission protocols It acts
as the entry - exit point for a network. It allows
us to carry out various online activities. It besically
work as the messenger agent that takes data from
one system, interprets it, and transfers it to another
System. It is also called packet convertes.
HILL
Gateway
7. Bridge: A network bridge is a computer networking
device that creates a single, aggregate network
from multiple communication network segments.
A bridge is basically a repeater with add-on
functionality of filtering content. It also prevents
unne cessary traffic from entering the network
and reduces congestion.
THE THE PARTY OF T
Bridge
<del></del>

1. Internet: - The Internet is the biggest world-wide communication network of computers. It provides a variety of information and communication facilities.

2. Intranet: The term Intranet is a private network of communication. Intranet is basically used by an eigenization and within an organization to share files and resources of the eigenization securely.

3. Bandwidth: The amount of data that can be transmitted in a fixed time is known as Bandwidth. The bandwidth is expressed in bits per second or bytes per second. Or in Kbps and Mbps.

4.	Internet Service Provider (15P) :- Students, there are various
	Internet service providers like
an weither com-	
	provides Internet connection to users and charge lee for the
	BSNL, Airtel, Connect etc. These companies or organizations provides Internet connection to users and charge fee for the facility.
5.	
	Website: - A website is a collection of webpages that contains
	images, videos or other digital media. These webpages
	can be accessed through internet. Each website is owned
	and managed by an individual or by an organization.
6-	Web Portal: Students, web portal is a specially designed
	website that brings information from diverse
	sources, like emails, search engines etc. Web portal does
	not contain information on any topic like websites do;
	but webportals suggests web pages to the user to find
	the desured information.
	Web lage: - The digital pages that contains text, images, audios, videos etc. are called webpages.
	audios, videos etc. are called webpages.
	collection of webpages create a website.
B.	Homepage: The first page of a website is called Homepage
9.	Homepage: The first page of a website is called Homepage link: A link is a channel that connects two
	allices for auti communication,
10.	Hyperlink: - It is an image, audio, video or text that
	connects one web page to another web page.
1/2	II I A TANK A TANK A TANK WATER
_1_1	linking to other documents or use border
	4. amedia: It is a bungutext that includes text
[d.	Aughternation of the sold of t
	linking to other documents or web pages.  Hypermedia: It is a hypertext that includes text,  graphics, sound or video.

## Subject - Computers

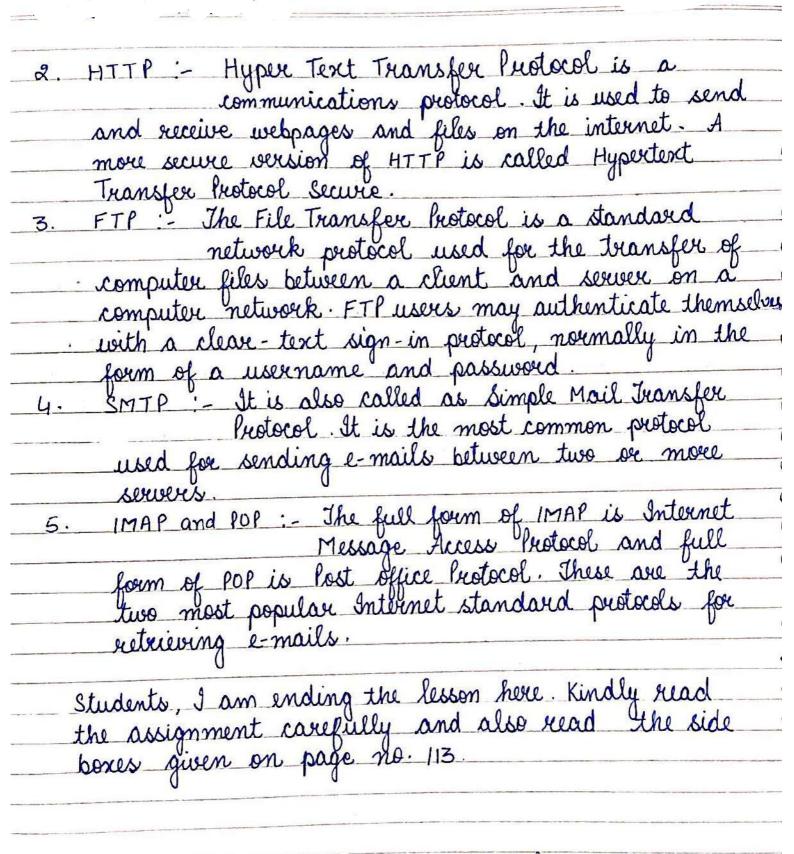
13.	Uniform Resource Cocator (URL): - It is the unique
	address of a
	ush some or a useboite. For a http://www.google
	wedpings of a work
	com is the UKL of google.
14.	uebpage on a website. For 1g. http://www.google.com is the URL of google.  1P Andrews (Internet Protocol Address):- An IP
•	Address is
	and intimal minus not of mumberer which
	a combination of unique set of raumoles, where
	is pre-provided to each computer. It is difficult
	to remember 18 addresses that is why domain
	a combination of unique set of numbers, which is pre-provided to each computer. It is difficult to remember 19 addresses that is why domain names are used.
	WITHUS ARE WALK
15.	Somain Name: The unique name given to each
	us bute, or resource connected
	to the Internet is known as Domain Name. It
	is easier to remember domain names than
	is labele to remember of the
	the TP addresses. For eg. google, co.in is the
	domain name of Goode slater engine. A asman
	manua contains till alle alle sold butters
	and other is the web extension. The name of
	and while is the west stated the character of
	domain comes before det (.). In the above given
	example name of domain is google and web extension is co. in.
	on the second of
	exiliation is the contraction of

Protocols: - The set of rules are known as protocols.

These rules consists of various terms
like how data should be transferred over networks,
compressed, presented on the screen. There are various
protocols used to standardize the processes and ways
of communicating over a computer network. Let us
discuss various protocols.

of the main protocols of the Internet protocol suite is the protocol suite. The Internet protocol suite is the conceptual model and set of communications protocols used in the Internet and similar computer networks. TCP/IP is a combination of two separate protocols, TCP and IP. TCP is used for a reliable data transmission over the network.

and IP provides a sequence number to each of these packets so that they might reach their destination in courset order.



Topic -

Teacher - Prabhdeep Kaur

# Cloud Computing

children, today we will learn about cloud Computing As
you know that we use to store our data or information
in our computer or we use external hardware devices to
store our work so that we can access our data
whenever required or can share with others. But
nowdays most of the users uses the cloud for storing
and sharing data. The cloud is not a physical entity
or thing but instead is a wast network of remote servers
of thing but institute is a such as a-mails with -
around the globe. Applications, such as e-mails, web-
conferencing all run in cloud. Let us take an example
of our social media accounts. We use to upload the photos
and maintain our album and if we will delete those
photos from our device they will remain stored in our
social media account with the help of cloud children,
cloud computing is made of two words cloud and
Computing: It is internet based computing.

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Teacher - Prabhdeep Kaur

characteristics of cloud Computing: Students cloud
computing is
having five defining characteristics given as below: - 1. on - demand Self - Service: You can use it
1. on - demand Self-Service: You can use it
Hall Willoc I had vaca ac
and pay per use. Think of it as electricity as you have to pay bill at the end of the month only for what you used. In cloud computing, multiple clients can share
say bill at the end of the month only flow what you
used. In cloud computing, multiple clients can shave
resources and applications at the same time.
2. Broad Notwork Access: You must be able to access
from across the web using any
dovice with internet connectively.
3 Resource Paolina: - Multiple usurs can use or share the
same resources like nellions conflictions
bandwidth etc. You can be anywhere in the world and
still have equal access as everyone else, provided
usu have internet access.
1. Ohid sparticity. I and can never and shrunk as much
as a positive tiplum any time
of its users. This allows consumers to increase or
of its users. This allows consumers to increase of
medb:
5. Measured Services: You can monitor how often people
are using the cloud-
Computing is based on pay-for-what-you-use model
to insufe that their clients are getting what they
Computing is based on pay-fox-what-you-use model to ensure that their clients are getting what they pay for.
^
Yage - 2

#### Computers

Teacher -	Prabhdeep	Kaur

Students our next topic is "Types of cloud". There are four
Students our next topic is "Types of cloud". There are four different types of cloud based on their ownership, size
and access.
1. Public cloud: - This type of cloud can be used on
accessed by anyone, anywhere over the
1. Public cloud: - This type of cloud can be used or accessed by anyone, anywhere over the internet. It is provisioned for open use for the public
DI A AIDRILLANDE DEGRAVA ACCORDE
2. Private cloud: These type of cloud do not share their
digital space with anyone else. A
2. Private cloud: These type of cloud do not share their digital space with anyone else. A private cloud is owned and used by a single organization.
over a private network.
3. Hybrid cloud: This type of cloud is used to control an
internal database and use the public
cloud when needed as it is the combination of both public
and private cloud.
group of consumers from different
organizations who share same concerns. It may be owned
se managed by one organization but used by a particular
4. Community cloud: This special cloud is used by a group of consumers from different organizations who share same concerns. It may be acoust or managed by one organization but used by a particular community.

Students, our next topic is "Advantages of cloud.  Computing?
Tomputing'.
1. Cost Savings: As we read earlier that we can
1. Cost Savings: As we read earlier that we can pool the resources using cloud
computing. So with cloud computing based on one-
computing. So with cloud Computing based on pay- per-use model, businesses or consumers can
significantly lower the company's IT expenses and
REALISE MOMPA,
2. Reliability: - It is easy to take backup of your data
una la sear ni atab vergor bana
bailing with cloud computing which makes it more
2. Reliability: - It is easy to take backup of your data and recover data in case of any failure with cloud computing which makes it more reliable.
3. Unlimited storage: - closed appoides unlimited storage
3. Unlimited storage: - closed provides unlimited storage space to store large amounts of
i description
Information.
4. Accessibility: - It is easy to access the cloud computing services by using Internet based
services by using internet based
devices
children next topic is Disadvantages of Cloud Computing
1 Tradicion Januaria AL MOUNT COMPLITIMA HOURDY ON INTERMAL
1. The man to it am tolering it is a second way to
so y any ternital isott applaces, you cannot
access services provided by cloud computing.
2. Security: - It is not 100% source to save sensitive data
so if any technical issue appears, you cannot access services provided by cloud computing.  2. Security: It is not 100% secure to save sensitive data on third party cloud providers.
3. Limited Control: As the cloud is owned by the service providers, so users have little control over services.
punished to users house little control proce services
1. He day look the de in the court of an acut la
4. Vendor lock-IN: - It is not easy to switch or port from one cloud service to another due to support issues.
one cloud siruice to another all to support issues.

#### Computer

Teacher: Prabhdeep Kaur

Children, in previous topic we discussed various advantages and disadvantages of cloud computing. Joday we will discuss one drive which is a online storage facility of cloud computing offered by Microsoft. One drive is used as a personal storage drive, where we can store all our documents, photos, videos etc. in an organised manner. Microsoft offers feer storage space upto 5 GB to all its one drive users. It is a safe storage space on cloud as it is password perfected. Let us learn how to access one drive:

1. Open onedrive. com and click on Sign up for free 2 tab.

2. A new webpage will open.

- 3. Now click on the 'Create a Microsoft account' tab.
- 4. Enter a valid e-mail id and password and click on 'Next' button.
- 5. After following the instructions appearing on your screen the one Drive home page will appear on your your screen.

Students, you can upload your files or folders to your one Drive by dragging and dropping the files onto this page.

Teacher: Prabhdeep Kaur

children, kindly observe the interface of one Drive given on page no. 123 in figure 9.3. As one Drive possesses various features on the Home page. These features are discussed below: -

1. Skype: The skype icon is present at the top bare adjacent to the bell icon. Skype is integrated in one Drive as it enables us to make video and

Notifications: The bell icon to represent the notifications. It displays notifications about our files, folders and edited documents.

- 3. One drive settings: Using this feature we can view options, Upgrade our storage plans and change the language in the Setting menu.
- 4. Help: This feature allows us to conduct search on various topics and features associated with one Drive -5. Sort :- Using this feature we can sort our files and

folders on the basis of their Name, Size etc.

6. View # :- The feature allows us to change the view

of our files either to the list view or Photo view. By default files are listed in the form of tiles.

7. Search bar: It is used to search any file on one drive.

It is present on the top left side of the

home page of One Drive. 8. The left Pane: - Through this pane we can view our Recent, Photos, Shared etc.

#### Computer

Teacher: Prabhdeep Kaur

Stadents our next topic is uploading files and folders on one Drive? to You can store or upload files by following steps

1. Click on the upload button as given in fig. 9.4.

3. Select the Files or Folder option from the list given.

3. Browse and select the file or folder you want to upload.

4. Click on Open button.

5. The uploaded file now appears in the Files pane

Stadents how to create Files or Folders in One Drewe-

First of all you

should have an account in one Drive for using the features and facilities provided by one Drive. After signing in your account select the option 'New'. As you can set different types of document's list will appears shown in figure 9.5 on page no. 125. Select the type of document that you want to create. Now using the Jacques tools and options, you can easily create your document.

Children let us now learn how to share files onlines through one drive we need to attach files when we use to share data through e-mails, but when we use One Drive to share data there is no need to attach files. There are different methods to shall a file. You can either send it through e-mail or you can with your friends or other related person.

In previous topic we learnt how to upload files or Folders on one drive. Joday we will discuss how to create Files or Folders in one drive. First of all you should have an account in one drive for using the features and facilities provided by one drive. After signing in your account select the option 'New'. As you can see different types of document's list will appears shown in figure 9.5 on page no. 125. Select the type of document that you want to create. Now using the various tools and options, you can easily create your document.

through one drive we need to attach files when we use to share data through e-mails, but when we use one drive to share data there is no need to attach files. There are different methods to share a file. You can either send it through e-mail or you can create a link of file and can share that link with your friends or other related person.

#### Computer

Teacher: Prabhdeep Kaur

## Follow the given steps to share your files with others.

1. Move your mouse over the file that you want to share and then click on the check box that appears on the top right corner.

2. Select the 'Shave' option 10

- 3. choose one option from the given options in the pop-
- 4. Now click on the 'Get a link' option to generate a link or click 'Email' to send the file through e-mail.
- 5. If you choose E-mail, enter the e-mail address of the recipients
- 6. click on the "Share button"

Children after shaving File, do not forget to log out or Sign out from your one drive account by clicking on 'My accounts' button and selecting 'Sign out' option

Teacher: Prabhdeep Kaur

licasa: - Students, licasa is a free program or software used to edit, organize and share the digitaly saved photographs it provides I G1B of free online storage space to store photos. There are various features of licasa as it provides variety of special effects for your photos. Picasa allows to create a slide show, photos college and videos with your photos. It can also be used to store and uplood your digital protos.

1400 to use licasa: - Follow the given stops to use licasa

1. Down load Picasa software on your device.

2. Open the Picasa application by double-clicking on its icon-

3. It will automatically scans your hard drive for photos and will move them in the main library view.

4. Now you editing double click on the photo:

5. The Editing window will appear as shown in fig. 9.10

. Apply the desired effects.

7. Now click on the 'Upload to Google Photos' for uplanding the pictures.

8- If you want to send photos to friends, click on e-mail

button.

9. You can print the pictures by using the Print' option.

children, I am ending the lesson here. Kindly read the assignment carefully-