

Tender Heart High School Date-29.04.2024

Computer Application

Class - X

String handling

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String: Collection of Character

String s = "Series";

Memory

s	e	r	i	e	s
---	---	---	---	---	---

 length = 6

Index
number

Size = 0 $\rightarrow$ length - 1

String Functions: -

1. toLowerCase(String) [use to change string in lower case]
return type = String

Eg. String s = "AbC4-2"; output
String s1 = s.toLowerCase(); abc4-2
String a = "ABC".toLowerCase(); abc

2. toUpperCase(String) [use to change string in uppercase]
return type = String

Eg. String s = "AbC4-2"; output
String s1 = s.toUpperCase(); ABC4-2
String a = "ABC".toUpperCase(); ABC

3. length() [use to calculate length of string]
return type = int

Eg. String s = "Computer"; output
int i = s.length(); 8

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String handling

4. charAt() [use extract the character from string]
return type = char

Eg. String s = "Computer"; output
char ch = s.charAt(3); p

Programs on bases of these 4 functions we done:

1. WAP to input a string and display total number of vowels present in it

Sample input : Application

Output : 5

```
import java.util.*;
```

```
class vow
```

```
{
```

```
    public static void main (String args[])
```

```
    {
```

```
        Scanner sc = new Scanner (System.in)
```

```
        char ch;
```

```
        int v = 0;
```

```
        System.out.println ("Enter String")
```

```
        String s = sc.nextLine();
```

```
        int l = s.length();
```

```
        for (int i = 0; i < l; i++)
```

```
        {
```

```
            ch = s.charAt(i)
```

```
            if (ch == 'A' || ch == 'a' || ch == 'e' || ch == 'E'
```

```
                || ch == 'I' || ch == 'i' || ch == 'O' || ch == 'o'
```

```
                || ch == 'U' || ch == 'u')
```

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String Handling

```
V++;  
}  
System.out.println(v);  
}  
}
```

2. WAP to input a string and display it in reverse order.

Sample input - JAVA
output - AVAJ

```
import java.util.*;  
{  
    class rev  
    {  
        public static void main(String args[])  
        {  
            Scanner sc = new Scanner(System.in)  
            String S, SI = "";  
            System.out.println("Enter string");  
            S = sc.nextLine();  
            int l = S.length();  
            for(int i = 0; i < l; i++)  
            {  
                char ch = S.charAt(i);  
                SI = ch + SI;  
            }  
            System.out.println(SI);  
        }  
    }  
}
```

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Computer Application

CLASS-X

Topic: String handling

Prabdeepkaur

3. WAP to input a string and display the first character of each by dot(.)

Sample input - India is my country

Output - I.i.m.c

```
import java.util.*;
```

```
{
```

```
    class fcd
```

```
{
```

```
    public static void main(String args[])
```

```
{
```

```
        Scanner sc = new Scanner(System.in)
```

```
        char ch;
```

```
        String s, SI = "";
```

```
        System.out.println("Enter String");
```

```
        s = sc.nextLine();
```

```
        int l = s.length()
```

```
        for (int i = 0; i < l; i++)
```

```
{
```

```
            ch = s.charAt(i)
```

```
            if (ch == ' ')
```

```
                SI = SI + s.charAt(i+1) + '.' ;
```

```
        }
```

```
        System.out.println(SI);
```

```
}
```