

1) Explain the following Statement with Examples. Statement: Whenever we are creating an array, every element is initialized with default value automatically

when you create an array, each element of the array is automatically initialized with a default value based on its type.

Numeric Type

Default value of int ,long ,short ,byte =0 , float,double=0.0;

Class Default

```
{
Public static void main(String args[])
{
System.out.println(" siva");
int[] intArray = new int[3];
double[] doubleArray = new double[9];
float[] floatArray = new float[6];
long[] longArray = new long[4];
short[] shortArray = new short[5];
byte[] byteArray= new byte[8];

System.out.println("int Array: " + intArray[0]);
System.out.println("double Array: " + doubleArray[0]);
System.out.println("Float Array: " + floatArray[0]);
System.out.println("long Array: " + longArray[0]);
System.out.println("short Array: " +
shortArray[0]);
System.out.println("byte Array: " +
byteArray[0]);

}
}
```

Boolean Type

Default value is false

Class Default

```
{  
Public static void main(String args[])  
{  
boolean[] booleanArray = new boolean[8];  
System.out.println("boolean Array: " + booleanArray[0]);  
}  
}
```

Char type

Default value is .

Class Default

```
{  
Public static void main(String args[])  
{  
char[] charArray = new char[8];  
System.out.println("char Array: " + charArray[1]);  
}  
}
```

String

Default value is null

Class Default

```
{  
Public static void main(String args[])  
{  
String[] stringArray = new String[15];  
System.out.println("string Array: " + stringArray[0]);  
}  
}
```

Object

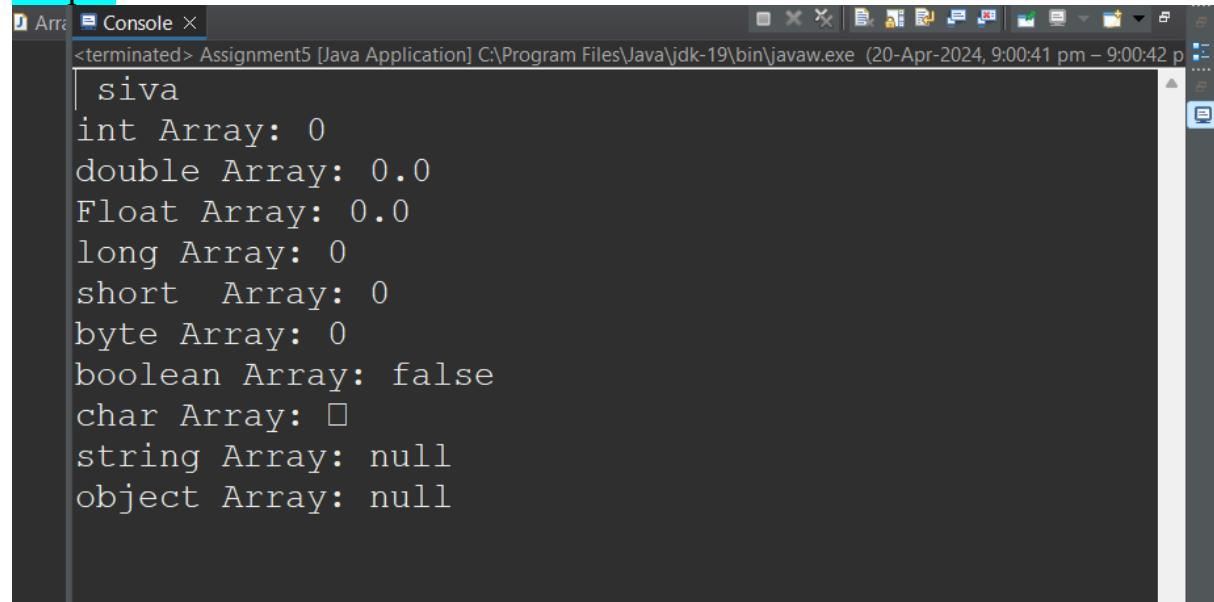
Default value is null

Class Default

```
{  
Public static void main(String args[])  
{
```

```
Object[] objectArray = new Object[8];
System.out.println("object Array: " + objectArray[0]);
}
}
```

Output



```
<terminated> Assignment5 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Apr-2024, 9:00:41 pm - 9:00:42 p
siva
int Array: 0
double Array: 0.0
Float Array: 0.0
long Array: 0
short Array: 0
byte Array: 0
boolean Array: false
char Array: []
string Array: null
object Array: null
```

2) Write a java program to find the sum of all elements and largest element in an integer array.

```
package com.wipro;

public class Sum_Max_Array {
    public static void main(String[] args) {

int [] siva = {10,5,89,2,45,0,5,923};
int sum = 0;

for (int i = 0; i < siva.length; i++)
```

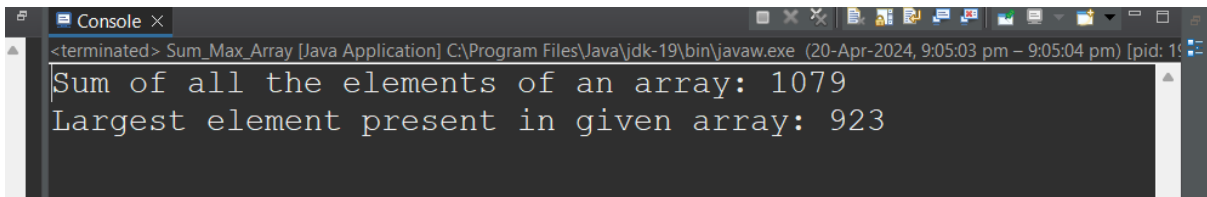
```

    {
        sum = sum + siva[i];
    }
    System.out.println("Sum of all the elements of an array: " + sum);

    int max = siva[0];
    for (int i = 0; i < siva.length; i++)
    {
        if(siva[i] > max)
            max = siva[i];
    }
    System.out.println("Largest element present in given array: " + max);
}
}

```

Output



```

<terminated> Sum_Max_Array [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Apr-2024, 9:05:03 pm – 9:05:04 pm) [pid: 1564]
Sum of all the elements of an array: 1079
Largest element present in given array: 923

```

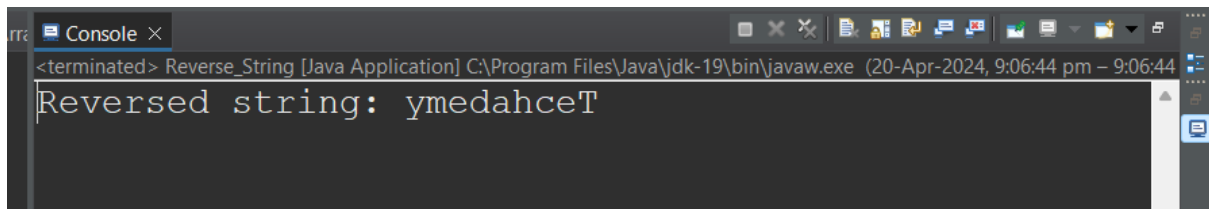
3) write a java program to print **Techademy** in reverse order by using arrays in java

```
package com.wipro;
```

```
public class Reverse_String {
```

```
public static void main (String [] args) {  
  
    String original = "Techademy";  
    char[] charArray = original.toCharArray();  
    System.out.print("Reversed string: ");  
    for (int i = charArray. length - 1; i >= 0; i--)  
    {  
        System.out.print(charArray[i]);  
    }  
}  
}
```

Output



The screenshot shows a Java console window titled "Console" with a close button. The window displays the output of a Java application named "Reverse_String". The output is "Reversed string: ymedahceT". The console window is running on a Windows operating system, as indicated by the taskbar and window style.

```
<terminated> Reverse_String [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (20-Apr-2024, 9:06:44 pm - 9:06:44  
Reversed string: ymedahceT
```