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]);
}
}
```

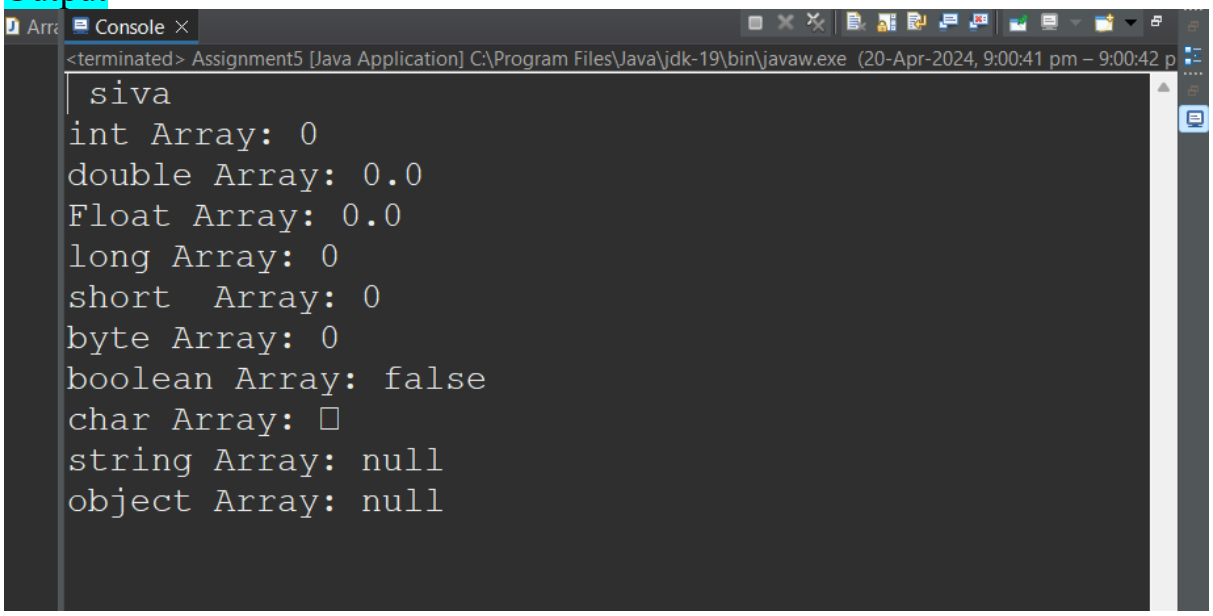
Object

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

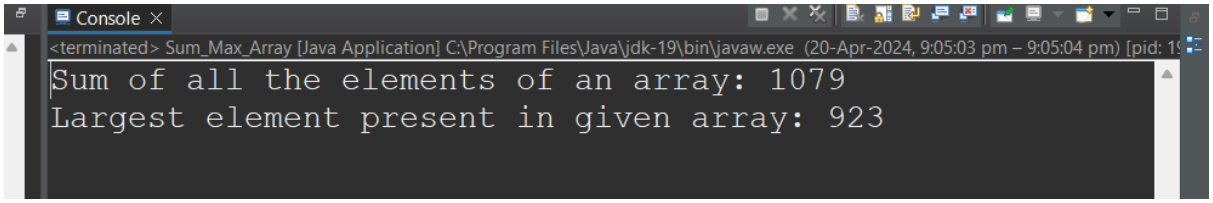


2) Write a java program to find the sum of all elements and largest element in an integer array.

```
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



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