Assignment-3

Solve the program and write the correct output of the program

1.

```
// Main class
class GFG {
        public static void main(String[] args)
        {
                int i = 100;
                long l = i;
                float f = l;
                System.out.println("Int value " + i);
                System.out.println("Long value " + l);
                System.out.println("Float value " + f);
        }
}
```

Answer :Output Int value 100

Output Long value 100

Output Float value 100.00

2.

```
// Main class
public class GFG {
	public static void main(String[] argv)
	{
		char ch = 'c';
		int num = 88;
		ch = num;
	}
}
```

Answer: Main.java:17: error: incompatible types: possible lossy conversion from int to char

```
ch = num;
```

3.

```
// Main class
public class GFG {
	public static void main(String[] argv)
	{
		char ch = 'c';
		int num = 88;
		ch = num;
	}
}
```

Answer: Main.java:17: error: incompatible types: possible lossy conversion from int to char

```
ch = num;
```

4.

```
// Main class
public class GFG {
	public static void main(String[] args)
	{
		double d = 100.04;
		long l = (long)d;
		int i = (int)l;
		System.out.println("Double value " + d);
		System.out.println("Long value " + l);
		System.out.println("Int value " + i);
	}
}
```

Answer : Double value :100.04

Long value :100

Int value :100

5.

```
// Main class
class GFG {
        public static void main(String args[])
        {
                byte b;
                int i = 257;
                double d = 323.142;
                System.out.println("Conversion of int to byte.");
                 i % 256
                b = (byte)i;
                System.out.println("i = " + i + " b = " + b);
                System.out.println(
                        "\nConversion of double to byte.");
                b = (byte)d;
                System.out.println("d = " + d + " b= " + b);
        }
}
```

Answer : Conversion int to byte

i= 1 b=1

Conversion of double to byte

d=323.142 b=67

6.

```
// Main class
class GFG {
	public static void main(String args[])
	{
		byte b = 42;
		char c = 'a';
		short s = 1024;
		int i = 50000;
		float f = 5.67f;
		double d = .1234;
		double result = (f * b) + (i / c) - (d * s);
		System.out.println("result = " + result);
	}
}
```

Answer: Result :626.7718

7.

```
// Main class
class GFG {
	public static void main(String args[])
	{
		byte b = 50;
		b = (byte)(b * 2);
		System.out.println(b);
	}
}
```

Answer: output:100

8.

```
import java.util.Arrays;
// Main class
public class GFG {
	public static void main(String[] args)
	{

		int[] arr = { 13, 7, 6, 45, 21, 9, 101, 102 };
		Arrays.sort(arr);
		System.out.println("Modified arr[] : %s",
							Arrays.toString(arr));
	}
}
```

Answer : Modified arr[] [6 ,7 ,9 ,13 ,21 ,45 ,101 ,102]

9.

```
import java.util.Arrays;
import java.util.Collections;

// Main class
public class GFG {

	// Main driver method
	public static void main(String[] args)
	{
		String arr[] = {
"practice.geeksforgeeks.org","quiz.geeksforgeeks.org","code.geeksforgeeks.org" };
		Arrays.sort(arr);
		System.out.println("Modified arr[] : \n%s\n\n",Arrays.toString(arr));
		Arrays.sort(arr, Collections.reverseOrder());
		System.out.println("Modified arr[] : \n%s\n\n",Arrays.toString(arr));
	}
}
```

Answer:Modified arr[]

[code.geekforgeeks.org , practice.geekforgeek.org , quiz.geekforgeeks.org]

Modified arr[]

[quiz.geekforgeeks.org ,practice.geekforgeek.org, code.geekforgeeks.org]

10.

```
import java.util.*;
public class Collectionsorting
{
	public static void main(String[] args)
	{

		ArrayList<String> al = new ArrayList<String>();
		al.add("Geeks For Geeks");
		al.add("Friends");
		al.add("Dear");
		al.add("Is");
		al.add("Superb");
		Collections.sort(al);
		System.out.println("List after the use of" +
							" Collection.sort() :\n" + al);
	}
}
```

Answer: List after the use of collection.sort ():

[Dear, Friends, Geek for Greek, Is, Superb]