**Assignment-3**

**Solve the program and write the correct output of the program**

// 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);

}

}

Ans: 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;

}

}

Ans: Compilation Error

3.

// Main class

public class GFG {

public static void main(String[] argv)

{ char ch = 'c';

int num = 88;

ch = num;

}

}

Ans: Compilation Error

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);

}

}

Ans: 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);

}

}

Ans: 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);

}

}

Ans: 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);

}

}

Ans: 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));

}

}

Ans: 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));

}

}

Ans : Modified arr[]

[code.geeksforgeeks.org, practice.geeksforgeeks.org, quiz.geeksforgeeks.org]

Modified arr[]

[quiz.geeksforgeeks.org, practice.geeksforgeeks.org, code.geeksforgeeks.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);

}

}

Ans: List after the use of collection.sort(): [Dear, Friends, Geek for Greek, Is, Superb]