Assignment : 3

1]
```
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);
    }
        }
```

Output :
```
Int value 100
long value 100
float value 100.0
```

2]
```
public class GFG {
public static void main (String [] argv)
{   char ch = 'c';
    int num = 88;
    ch = num;   } }
```

Output : Compilation error

3]
```
public class GFG {
    public static void main (String [] argv)
    {   char ch = 'c';
        int num = 88;
        ch = num;
    } }
```

Output : Compilation error

4] 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); }}

Output : Double value 100
long value 100
Int value 100

5] 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 ("\n Conversion of double to byte");
b = (byte) d;
System.out.println ("d =" + d + "b =" + b);
} }

output : Conversion into byte
i = 257 b = 1
Conversion of double to byte
d = 323.142 b = 67

6] 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); }}

Output : result = 626.7718

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

Output : 100

8] 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));

} }

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

9] public class GFG {
public static void main (String [] args)
{ String arr [] {
"Practice.geeksforgeeks.org", "quiz.geeksforgeeks.org",
"Code.geeksforgeeks.org"};

Array.sort (arr);
System.out.println ("Modified arr[]: \n %s \n\n",
Arrays.sort(arr, Collections.reverseOrder));
System.out.printf("Modified arr []: \n %s \n\n",
Arrays.toString(arr)); }}

Output: Modified arr []
[Code.geekforgeeks.org, practice.geekforgeeks.org,
quiz.geekforgeeks.org]
Modified arr []
[quiz.geekforgeeks.org, Practice.geekforgeeks.org,
Code.geekforgeeks.org]

10] public class Collection Sorting
{ public static void main (String [] args)
{ ArrayList<String> al = new ArrayList<String>();
al.add ("Geeks forGeeks");
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);
}}

Output: List after the use of collection.sort():
[Dear, friends, Geekfor Geek, Is, Superb]