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);
Sy.stem.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 :- An error will be generated
Possible lossy Conversion from int to char
ch = num ;
We are trying to plot data from 4 bytes into 2 bytes which is not possible.

③ output :-
An error will be generated
incompatible types : possible lossy Conversion
from int to char
ch = num ;

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 100.04
long value 100
Int value 100

while assigning value to byte type the fractional part is lost and reducted to modulo 256 (range of byte).

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;
S.O.P. ("i =" + i + "b =" + b);
S.O.P ("In conversion of double to byte");
b = (byte) d;
S.O.P ("d =" + d + "b =" + b); } }

output :-

Conversion of int to 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 :- 626.
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:-\n\n",
Arrays.toString(arr));
Arrays.sort(arr, Collections.reverseOrder());
System.out.println("Modified arr []:\n:-\n\n",
Arrays.toString(arr)); }}

output :- Modified arr []
[code.geekforgeeks.org, practice.geekforgeek.org,
quiz.geekforgeeks.org]
Modified arr []
[quiz.geekforgeeks.org, Practice.geekforgeek.org,
code.geekforgeeks.org]

⑩ 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); } }
output :-
List after the use of collection.sort():
[Dear, Friends, Geek for Geek, is, superb]