**1. class increment {**

**public static void main(String args[])**

**{**

**int g = 3;**

**System.out.print(++g \* 8);**

**}**

**}**

Ans. 32

**2. class output {**

**public static void main(String args[])**

**{**

**double a, b,c;**

**a = 3.0/0;**

**b = 0/4.0;**

**c=0/0.0;**

**System.out.println(a);**

**System.out.println(b);**

**System.out.println(c);**

**}**

**}**

**Ans. Infinity**

**0**

**NaN**

**3. class variable\_scope**

**{**

**public static void main(String args[])**

**{**

**int x;**

**x = 5;**

**{**

**int y = 6;**

**System.out.print(x + " " + y);**

**}**

**System.out.println(x + " " + y);**

**}   
Ans. y is out of scope**

**4. class box**

**{**

**int width;**

**int height;**

**int length;**

**}**

**class main**

**{**

**public static void main(String args[])**

**{**

**box obj = new box();**

**obj.width = 10;**

**obj.height = 2;**

**obj.length = 10;**

**int y = obj.width \* obj.height \* obj.length;**

**System.out.print(y);**

**}**

**}  
Ans. 200**

**5. class Output**

**{**

**public static void main(String args[])**

**{**

**int arr[] = {1, 2, 3, 4, 5};**

**for ( int i = 0; i < arr.length - 2; ++i)**

**System.out.println(arr[i] + " ");**

**}**

**}  
Ans. 1**

**2**

**3**

**6. class recursion**

**{**

**int func (int n)**

**{**

**int result;**

**if (n == 1)**

**return 1;**

**result = func (n - 1);**

**return result;**

**}**

**}**

**class Output**

**{**

**public static void main(String args[])**

**{**

**recursion obj = new recursion() ;**

**System.out.print(obj.func(5));**

**}**

**}**

**Ans. 1**

**7. class output**

**{**

**public static void main(String args[])**

**{**

**String c = "Hello i love java";**

**boolean var;**

**var = c.startsWith("hello");**

**System.out.println(var);**

**}**

**}**

**Ans. false**

**8. import java.util.\*;**

**class Arraylists**

**{**

**public static void main(String args[])**

**{**

**ArrayLists obj = new ArrayLists();**

**obj.add("A");**

**obj.add("B");**

**obj.add("C");**

**obj.add(1, "D");**

**System.out.println(obj);**

**}**

**}**

**Ans. [A,D,B,C]**

**9. import java.util.\*;**

**class Collection\_iterators**

**{**

**public static void main(String args[])**

**{**

**LinkedList list = new LinkedList();**

**list.add(new Integer(2));**

**list.add(new Integer(8));**

**list.add(new Integer(5));**

**list.add(new Integer(1));**

**Iterator i = list.iterator();**

**Collections.reverse(list);**

**Collections.sort(list);**

**while(i.hasNext())**

**System.out.print(i.next() + " ");**

**}**

**}**

**Ans. 1 2 5 8**

**11.import java.util.\*;**

**class UtilitiesTest {**

**public static void main(String[] args) {**

**List < int > intList = new ArrayList < > ();**

**intList.add(10);**

**intList.add(20);**

**System.out.println("The list is: " + intList);**

**Ans. The list is: [10,20]**

**12.import java.util.\*;**

**class UtilitiesTest {**

**public static void main(String[] args) {**

**List < Integer > intList = new LinkedList < > ();**

**List < Double > dblList = new LinkedList < > ();**

**System.out.println("First type: " + intList.getClass());**

**System.out.println("Second type:" + dblList.getClass());**

**}**

**}**

**Ans. First type: class java.util.LinkedList**

**Second type:class java.util.LinkedList**