1. Write the Output of the following codes:

[5]

```
public class Sum {
  int x, y, z;
    System.out.println(x+y+z);
  {
    x = 10;
    y = 20;
    z = 30:
    System.out.println(x+y+z);
  }
  public Sum(int x) {
    this.x = x;
    System.out.println(x+y+z);
  }
  public Sum(int x, int y) {
    this(1000);
    this.x = x:
    this.y = y;
    System.out.println(x+y+z);
  }
  public Sum(int x, int y, int z) {
    this(100, 200);
    this.x = x;
    this.y = y;
    this.z = z;
    System.out.println(x+y+z);
  public void display(){
    this.display("That's one small step for man, one giant leap for mankind.");
  }
```

```
public void display(String str){
    System.out.println(str);
}

public static void main(String args[])
{
    Sum s = new Sum(10, 20, 30);
    s.display();
}
```

2. Consider the following Java code:

```
class Shape {
                                          Output:
  void draw() {
                                          drawing rectangle...
     System.out.println("drawing...");
                                          drawing circle...
                                          drawing triangle...
class Rectangle extends Shape {
  void draw() {
    System.out.println("drawing
rectangle...");
  }
}
class Circle extends Shape {
  void draw() {
    System.out.println("drawing
circle...");
  }
class Triangle extends Shape {
  void draw() {
    System.out.println("drawing
triangle...");
  }
```

Write a class named Test, whish has the main() method. In the main() method, create a heterogeneous array named "s" of Shape class, where array length is three. Index s[0] creates with Rectangle class, s[1] creates with Circle class, s[2] creates with Triangle class. Finally, iterate a loop to call draw() method of each object. [5]