SHAPE:-

```
import java.util.Scanner;
abstract class shape {
   int int1, int2;
   abstract double printArea();
}
Class Rectangle extends shape {
    Rectangle (int a, int b) {
       int 1 = a;
       int 2 = b;
    }
  double printArea() {
      System.out.println (" For Rectangle");
      return int1 * int2;
    }
}
class Triangle extends shape {
        Triangle (int a, int b) {
          int 1 = a;
          int 2 = b;
        }
        double printArea() {
          System.out.println (" For Triangle");
          return (int1 * int2) / 2;
        }
   }
```

```
class circle extends shape {
    circle ( int a) {
    int l = a;
    }
    double printArea () {
      System.out.println ("For circle");
      return 3.14 * int l * int l;
    }
}
class shapeMain {
    Public static void main ( string args []) {
      Rectangle r = new rectangle ( 10, 20);
      Triangle t = new Triangle ( 20, 30);
       circle c = new circle ( 35);
  System.out.println ("Area of Rectangle is: " + r.printArea ());
  System.out.println ("Area of triangle is:" + t.printArea ());
  System.out.println ("Area of circle is: " + c.printArea ());
    }
}
```