```
import java.lang.Math;
                int a, b;
                Shape(int a, int b) {
                Shape(int a) {
                 abstract void printArea();
            class Rectangle extends Shape {
                Rectangle(int a, int b) {
                    super(a, b);
                void printArea() {
                    System.out.println("Area of rectangle is: " + a * b);
            class Triangle extends Shape {
                 Triangle(int a, int b) {
                    super(a, b);
(8)
                void printArea() {
                    System.out.println("Area of triangle is: " + a * b / 2);
```

```
Circle(int a) {
        super(a);
    void printArea() {
       System.out.println("Area of circle is: " + Math.PI * Math.pow(a, 2));
public class Lab4 {
    public static void main(String[] args){
        Scanner sc = new Scanner(System.in);
        Shape s;
       Rectangle r = new Rectangle(4, 10);
        Triangle t = new Triangle(6, 3);
       Circle c = new Circle(3);
       s.printArea();
        s.printArea();
        s.printArea();
```

