

```
abstract class shape{

    int d1;

    int d2;

    abstract void printArea();

}

class rectangle extends shape{

    rectangle(int d1, int d2){

        this.d1=d1;

        this.d2=d2;

    }

    @Override

    void printArea(){

        System.out.println("Area of rectangle =="+(d1*d2));

    }

}

class circle extends shape{

    circle(int d1){

        this.d1=d1;

    }

    void printArea(){

        float a=(float)(d1*3.14*d1);

        System.out.println("Area of circle==" +a);

    }

}

class triangle extends shape{
```

```

triangle(int d1, int d2){
    this.d1=d1;
    this.d2=d2;
}
void printArea(){
    float a=(float)(0.5*d1*d2);
    System.out.println("Area of triangle==" +a);
}
}
public class Main{
    public static void main(String args[]){
        rectangle r1= new rectangle(3,4);
        triangle t1= new triangle(7,6);
        circle c1=new circle(3);
        r1.printArea();
        t1.printArea();
        c1.printArea();
    }
}

```

```

Area of rectangle ==12
Area of triangle==21.0
Area of circle==28.26

=== Code Execution Successful ===

```