

Week-8Lab Program-4

```
abstract class Shape.
```

```
{
```

```
    int a=3, b=4;
```

```
    abstract public void print-area();
```

```
}
```

```
class rectangle extends Shape.
```

```
{
```

```
    public int area_rect;
```

```
    @Override
```

```
    public void print-area()
```

```
{
```

```
        area_rect = a * b;
```

```
        System.out.println("The area of rectangle is: " + area_rect);
```

```
}
```

```
class triangle extends Shape
```

```
{
```

```
    int area_tri;
```

```
    @Override
```

```
    public void print-area()
```

```
{
```

```
        area_tri = (int) (0.5 * a * b);
```

```
        System.out.println("The area of triangle is: " + area_tri);
```

```
}
```

```
}
```

```
class circle extends Shape
```

```
{
```

```
int area_circle;
```

```
@Override
```

```
public void print_area()
```

```
{  
    area_circle = (int)(3.14 * a * a);
```

```
    System.out.println("The area of circle is : " + area_circle);  
}
```

```
}
```

```
class at1
```

```
{  
    public static void main (String[] args) {  
        rectangle rec = new rectangle();
```

```
        rec.print_area();
```

```
        triangle tri = new triangle();
```

```
        tri.print_area();
```

```
        circle cir = new circle();
```

```
        cir.print_area();  
    }  
}
```

```
}
```