```
_
```

```
import java.util.Scanner;
    abstract class Shape {
 4
        int l:
 5
        int b:
 6
        abstract void printArea();
 8
    class Rectangle extends Shape {
10
        Scanner inp = new Scanner(System.in);
11
12
        Rectangle() {
13
            System.out.println("Enter the length and breadth of rectangle: ");
            System.out.print("Length : ");
14
15
             l = inp.nextInt();
            System.out.print("breadth : ");
16
            b = inp.nextInt();
17
18
        double area;
19
20
21
        void printArea() {
            area = (double) l*b;
22
23
            System.out.println("Area of Rectangle : "+area);
24
25
    }
26
27
    class Triangle extends Shape {
28
        Scanner inp = new Scanner(System.in);
29
        Triangle() {
30
            System.out.println("Enter the height and base of triangle : ");
            System.out.print("Height : ");
31
32
            l = inp.nextInt();
33
            System.out.print("Base : ");
34
            b = inp.nextInt();
35
36
        double area;
37
38
        void printArea() {
```

week7player.java ×

areaOFshapes.java x

☐ Line 1, Column 1 Tab Size: 4 Java

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                     areaOFshapes.java x
38
         void printArea() {
             area = (double)0.5*l*b:
39
             System.out.println("Area of Triangle : "+area);
40
41
42
    }
43
    class Circle extends Shape {
44
45
         Scanner inp = new Scanner(System.in);
         Circle() {
46
             System.out.println("Enter the radius of circle : ");
47
             System.out.print("Radius : ");
48
             l = inp.nextInt();
49
50
51
         double area;
52
53
         void printArea() {
54
             area = (double)3.14*l*l;
55
             System.out.println("Area of Circle : "+area);
56
57
     }
58
59
     class areaOFshapes {
60
         public static void main(String args[]) {
             Scanner inp = new Scanner(System.in);
61
62
             int opt:
             System.out.println("----Select your choice----");
63
64
             System.out.println("1.Find area of Rectangle\n2.Find area of Triangle\n3.Find area of Circle\n4.Exit\n");
             System.out.print("Your Choice : ");
65
66
             opt = inp.nextInt();
67
             while(opt!=4) {
68
                 switch(opt) {
69
70
                      case 1: Rectangle r = new Rectangle();
71
                              r.printArea();
72
                              break:
73
                      case 2: Triangle t = new Triangle();
74
                              t.printArea();
                              break:
```

☐ Line 1, Column 1 Tab Size: 4 Java

```
System.out.println("Area of Circle : "+area);
55
56
57
58
59
    class areaOFshapes {
60
        public static void main(String args[]) {
61
            Scanner inp = new Scanner(System.in);
62
            int opt;
63
            System.out.println("----Select your choice----");
64
            System.out.println("1.Find area of Rectangle\n2.Find area of Triangle\n3.Find area of Circle\n4.Exit\n");
            System.out.print("Your Choice : ");
65
            opt = inp.nextInt();
66
67
68
            while(opt!=4) {
69
                switch(opt) {
70
                     case 1: Rectangle r = new Rectangle();
                             r.printArea();
71
72
                             break;
                     case 2: Triangle t = new Triangle();
73
74
                             t.printArea();
75
                             break:
76
                     case 3: Circle c = new Circle();
77
                             c.printArea();
78
79
                             break;
80
81
                System.out.print("Enter your choice : ");
82
83
                opt = inp.nextInt();
84
85
86
87
88
89
90
```

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 areaOFshapes.java x

Line 1, Column 1 Tab Size: 4 Java

```
[dhruvdubey@Dhruvs-MacBook-Air JavaLab % java areaOFshapes
----Select your choice----
1.Find area of Rectangle
2.Find area of Triangle
3. Find area of Circle
4.Exit
Your Choice: 1
Enter the length and breadth of rectangle:
Length: 15
breadth: 13
Area of Rectangle: 195.0
Enter your choice: 2
Enter the height and base of triangle:
Height: 87
Base : 33
Area of Triangle: 1435.5
Enter your choice: 3
Enter the radius of circle:
Radius: 97
Area of Circle: 29544.26
Enter your choice: 4
dhruvdubey@Dhruvs-MacBook-Air JavaLab %
```