```
import java.lang.Math;
import java.util.Scanner;
class Circle
        float r;
        Circle(float rad)
                r=rad;
        float Area_Circle()
                return (22*r*r/7);
        }
}
class Sector extends Circle
        float tita;
        Sector(float rad, float T)
                 //r=rad;
                 super(rad);
                 tita=T;
        }
        float Area Sector()
                return(r*r*tita/2);
        }
}
class Segment extends Circle
        float h;
        Segment(float rad, float 1)
                 //r=rad;
                 super(rad);
                h=1;
        }
        double Area Segment()
                double A = r*r*((r-h)/r)-Math.pow((2*r*h-h*h),1/2);
                return A;
        }
}
class Test
        public static void main(String []args)
        {
```

```
Scanner sc = new Scanner(System.in);
                float rad, T, 1;
                System.out.println("Enter Radius of Circle:");
                rad = sc.nextFloat();
                Circle c = new Circle(rad);
                System.out.println("The area of the Circle of
Radius:"+rad+" is: "+c.Area Circle());
                System.out.println("Enter Radius of Sector:");
                rad=sc.nextFloat();
                System.out.println("Enter Angle of Sector in
Radian:");
                T=sc.nextFloat();
                Sector s = new Sector(rad, T);
                System.out.println("The area of the Sector is:
"+s.Area Sector());
                System.out.println("Enter Radius of Segment:");
                rad=sc.nextFloat();
                System.out.println("Enter the length of Segment:");
                l=sc.nextFloat();
                Segment st = new Segment(rad,1);
                System.out.println("The area of the Segment is:
"+st.Area Segment());
        }
}
```