Abstract Class

```
import java.util.*;
abstract class shape
  abstract void area();
}
class circle extends shape
  int r;
  double area;
  public void accept()
    Scanner sc=new Scanner(System.in);
    System.out.println("Enter radius of the Cirle");
    r=sc.nextInt();
  }
  public void area()
    area=3.14*r*r;
    System.out.println("Area of Circle:"+area);
}
class rectangle extends shape
  int l,b;
  double area;
  public void accept()
    Scanner sc=new Scanner(System.in);
    System.out.println("Enter Length and Breadth of Rectangle");
    l=sc.nextInt();
    b=sc.nextInt();
  }
  public void area()
    area=l*b;
    System.out.println("Area of Rectangle:"+area);
  }
}
class triangle extends shape
  int b,h;
  double area;
  public void accept()
    Scanner sc=new Scanner(System.in);
```

```
System.out.println("Enter Base and Height of Triangle");
    b=sc.nextInt();
    h=sc.nextInt();
  }
  public void area()
    area=0.5*b*h;
    System.out.println("Area of Triangle:"+area);
}
class main
  public static void main(String args[])
    circle c=new circle();
    c.accept();
    c.area();
    rectangle r=new rectangle();
    r.accept();
    r.area();
    triangle t=new triangle();
    t.accept();
    t.area();
  }
}
```

```
C:\Windows\System32\cmd.exe

C:\Users\jaini\OneDrive\Desktop\Educational\COLLEGE\SE\Java\Abstract class>java main
Enter radius of the Cirle

Area of Circle:78.5
Enter Length and Breadth of Rectangle
10 20
Area of Rectangle:200.0
Enter Base and Height of Triangle
10 20
Area of Triangle:100.0

C:\Users\jaini\OneDrive\Desktop\Educational\COLLEGE\SE\Java\Abstract class>
```