**//WAP in java in an interface shape b is being implements by the class Rectangle & circle for calculating their areas.**

import java.util.Scanner;

interface Shape

{

void input();

void area();

}

class Circle implements Shape

{

int r;

double pi=3.14,ar=0;

public void input()

{

r=5;

}

public void area()

{

ar=pi\*r\*r;

System.out.println("Area of Circle:"+ar);

}

}

class Rectangle extends Circle

{

int l=0,b=0;

double ar;

public void input()

{

super.input();

l=6;

b=4;

}

public void area()

{

super.area();

ar=l\*b;

System.out.println("Area of Rectangle:"+ar);

}

}

public class Demo

{

public static void main(String args[])

{

Rectangle obj=new Rectangle();

obj.input();

obj.area();

}

}

OUTPUT:

D:\aditi>javac Demo.java

D:\aditi>java Demo

Area of Circle:78.5

Area of Rectangle:24.0