## 2)CREATING A CLASS SHAPE USING INTERFACE. PROGRAM:

```
import java.util.Scanner;
interface shape
double getarea();
class circle implements shape
double radius,pi=3.14; public circle()
Scanner sc=new Scanner(System.in);
System.out.println("Enter the radius of circle");
radius=sc.nextDouble();
@Override
public double getarea()
return pi*radius*radius;
class triangle implements shape
double base, height;
public triangle()
Scanner sc=new Scanner(System.in);
System.out.println("Enter base of triangle");
base=sc.nextDouble();
System.out.println("enter height of triangle");
height=sc.nextDouble();
@Override public double getarea()
return 1/2*base*height;
class rectangle implements shape
double width, length;
public rectangle()
Scanner sc=new Scanner(System.in);
System.out.println("Enter rectangle length");
length=sc.nextDouble();
System.out.println("enter rectangle width");
```

```
width=sc.nextDouble();
@Override
public double getarea()
return length*width;
public class test
{ public static void main(String args[])
circle c=new circle();
triangle t=new triangle();
rectangle r=new rectangle();
System.out.println("Area of circle is "+c.getarea());
System.out.println("Area of triangle is :"+c.getarea());
System.out.println("Area of rectangle is "+r.getarea());
OUTPUT:
Enter the radius of circle
Enter base of triangle
enter height of triangle
Enter rectangle length
enter rectangle width
8
Area of circle is 78.5
Area of triangle is :78.5
Area of rectangle is 48.0
```