**TASK 5**

1.Implement a java program to calculate the area of a rectangle, a square and a circle. Create an abstract class 'Shape' with three abstract methods namely rectangleArea() taking two parameters, squareArea() and circleArea() taking one parameter each.

Now create another class ‘Area’ containing all the three methods rectangleArea(),squareArea() and circleArea() for printing the area of rectangle, square and circle respectively. Create an object of class Area and call all the three methods.

(Use Runtime Polymorphism)

2.Implement a java program to implement abstract class and abstract method with following details:

Create an **abstract Base Class Temperature**

Data members:

double temp;

Method members:

void setTempData(double)

abstact void changeTemp()

**Sub Class Fahrenheit** (subclass of Temperature)

Data members:

double ctemp;

method member:

Override abstract method changeTemp() to convert Fahrenheit temperature into degree Celsius by using formula C=5/9\*(F-32) and display converted temperature

**Sub Class Celsius** (subclass of Temperature)

Data member:

double ftemp;

**Method member:**

Override abstract method changeTemp() to convert degree Celsius into Fahrenheit temperature by using formula F=9/5\*c+32 and display converted temperature