Assignment - 6

①
```
import java.util.Date;
import java.util.concurrent.TimeUnit;

class Account
{
    private int id;
    private double balance;
    Static private double annualIntrestRa
    prite Date dataCreated = new Date(

    Account ()
    {
        id = 0;
        balance = 0.0;
        annualIntrest Rate = 0.0;
        dateCreated.setTime ( System.currentTimeMill
    }

Account ( int a , double b)
    {
        id = a;
        balance = b;
        dateCreated.setTime ( System.currentTime
    }   System.out.printin (dateCreated);
```

```
public int getId()
{
    return id;
}

public double getBalance()
{
    return balance;
}

public double getAnnualIntrestRate()
{
    return annualIntrestRate;
}

public void setId(int a)
{
    id = a;
}

public void setBalance(double b)
{
    balance = b;
}

public void setAnnualIntrestRate(double a)
{
    annualIvestRate = a;
}
```

```
Public double getMonthlyIntrestRate()
{
    return (annualIntrestRate / 12);
}
public double getMonthlyIntrest()
{
    double Intrest;
    Intrest = getMonthlyIntrestRate();
    return (balance * (Intrest / 100));
}
Public void withdraw (double a)
{
    if (a <= balance)
    {
        balance = balance - a;
        System.out.println ("withdrawn" + a);
    }
    else {
        System.out.println("insufficient balance");
    }
}
public void deposit (double i)
{
    balance += i;
}
```

```
class AccountTest
{
    public Static Void main (String[] args)
    {
        Account a = new Account (1122, 20000);
        a.setAnnualIntrestRate (12.5);
        a.withdraw (2500);
        a.deposit (3000);
        System.out.println ("Balance:" + a.getBalance());
        System.out.println("Monthly Intrest :" + a.monthly
                                                Intrest());
    }
}
```

②

```
import java.util.Scanner;
import java.lang.Math;
class pointType
{
    int x, y;
    Void setx (int a)
    {
        x = a;
    }
```

```
Void setY (int a)
  {
     y = a;
  }
int getX()
  {
     return x;
  }
int getY()
  {
     return y;
  }
Void printx()
  {
     System.out.println("(x,y)  ("+x+", "+y+")
  }
}

class circleType extends pointType
  {
     int radius;
     void setRadius (int a)
     {
        radius = a;
     }
```

```
int getRadius()
{
    return Radius;
}
void setCenter(int a, int b)
{
        x = a
        y = b
}
double area()
{
    return Math.pi * radius * radius;
}
double circumference() {
    return Math.pi * 2 * radius;
}
}
class CircleTest {
    public static void main(String[] args)
{
    circleType c = new circleType();
        c.setRadius(5);
        c.setCenter(1,2);
        double a = c.area();
```

System.out.println("The Radius" + C.getRadius
+ "(m)"

System.out.println("The x coordinate of " + C.g
centre is :

System.out.println("The y coordinate of " + C.get
centre is :

System.out.println("The area is " + a);

System.out.println("The circumference : " + cir
is

}}