3/11/20

1BM19 CS090

void main (String ays []) { Mea Main ? public static unt i; Scarner ( Eyster in ); Same SS = new do f System.out. print ("In 1. Rectangle In 2. Triangle In 3. Circle In 4 Exit In Exter Your choice: ") i = Ss. next Int (); if (1==1) { Rectargle r = new Rectangle (C) r. printArea (); } else if (1==2) f Triangle t= new Triangle(); t. print trea(); else y (1==3) { circle c= new Circle () () 111 c. print Auea (). else. if (i == 4) System. out. printly ("Enter Valid Choice! olse I while (i>o); 3 with sairs langue in leaster draw the or Hubbane of of I'm tray Los of or in (Controller) ) my that a said Hope I trong to restyle.

```
ShapeArea.java 🖴
\leftarrow
import java.util.Scanner;
abstract class Shape{
    float a,b;
    abstract void printArea();
    Scanner ss=new Scanner(System.in);
}
class Rectangle extends Shape{
    void printArea(){
         System.out.print("Enter Length:");
         a=ss.nextFloat();
         System.out.print("Enter Breadth:");
         b=ss.nextFloat();
         System.out.print("Area of Rectangle is "+(a*b)+"\n");
class Triangle extends Shape{
    void printArea(){
        System.out.print("Enter Base Length:");
         a=ss.nextFloat();
         System.out.print("Enter Height:");
         b=ss.nextFloat();
         System.out.print("Area of Triangle is "+(0.5*(a*b))+"\n");
class Circle extends Shape{
    Void printArea(){
         System.out.print("Enter Radius:");
         a=ss.nextFloat();
         System.out.print("Area of Circle is "+(3.14*a*a)+"\n");
class AreaMain{
    public static void main(String args[]){
        int i;
        Scanner ss=new Scanner(System.in);
        do{
            System.out.print("\n1.Rectangle\n2.Triangle\n3.Circle\n4.Exit\nEnter Your Choice:");
            i=ss.nextInt();
            if(i==1){
                Rectangle r=new Rectangle();
                r.printArea();
            else if(i==2){
                Triangle t=new Triangle();
                t.printArea();
            else if(i==3){
                Circle c=new Circle();
                c.printArea();
            else if(i==4)
            else{
                System.out.println("Enter Valid Choice!!");
        }
}while(i>0);
```

Process finished.

```
3/11/20
                                                     1BM19 4090
 Lab 5 Program;
                            Mohammed Ibrahim Rahi
cocle:
import java wil Scarner;
class 'Account (
   String on; I I I I I I I
    chas t;
     int ano;
     float bal = 0, wit = 0;
     Scarner SS = new Scanner (System.in);
     void dep () (
       System out print (" Finter Annual to be Deposited: ");
       bal = ss. next Float ();
       System out print ("Balance = "+ bal);
        System.out. print ("Enter Amount to be withdrawn: ");
        wit = ss. next Float ();
        bal= wit;
        System. out. print ("Balance = "+ bal);
    void bal Of
         System-out. print ("Balance = "+ bal);
    3
       sav-acet extends Account &
does
     void interest () {
        float por; double in; int gr;
        System. out print ("Enter Rate of Enterest (1)) and
                              years Twested: ");
         por = SS. next Float();
          yr = ss. next Int ();
          in = bal * Math. pow ((1+ (per/100)), yr);
         System.out. print ("Deposit Interest = " + in);
```

```
curract extends Account &
 class
     wid pen () {
        if (bal (= 2000)
            bal - = 100;
             System.out. print ("In Penalty of 15. 100 leviled");
             System. out. print ("In Balance = " + bal);
            System out print ("In Minimum Balance Maintained");
         else
      3 distance and tribbung tournely
                                             ( ) 51 4 x 1
      Bank Main
 class
 E
     public static void main (string args (I)
Scarner ss = new Scarner (System in);
          System out printly ("**** Bank *****);
           Account A = new Account ();
           System. out. print ("Enter Name: ");
            A. on = ss. next ();
            A. on = Ss. next (),
System. out. print ("Enter Account No:");
             A . and = SS . next Int ();
             System out print ("Exten 5 for saving on
                                       ( for Guerent: ");
              A: = ss. next (). charAt(o);
              int i;
              4 (A.t == 'S' 11 A.t == 'S') {
                  Sav - acct sav = new sav_acct();
                        System out print ("In In 1. Deposit In 2. widthdraw
                                        In 3. View Balance
                                         In 4. Vein Deposit Interest
                                         In 5. Exit
                                         In Enter Choice:");
                          1 = 65. next Int ();
```

```
U (1==1)
             Sav. dep ();
       else if (1:=2)
             sav. withd();
        else if (i == 3)
              saw, bal ();
        due if (1==4)
               sav interest ();
         else if (1==5)
          else System.out . print (" Exter Valid choice!!").
     3 while (iso);
if (A.l == "E" A.L == "c") {
     cour and our = new our occ! ();
      do {
          System. out print ("In . 1. Deposit In 2 widthdraw In 3 View Bolon
                             In 4. Exit In Enter Choice . "]
          i = SS. next Ind ();
          if ( i = = 1)
               cur. dep();
          else if (i==1) {
                cur &. withd ():
                cui . pen () :
           else if (1==3)
                 cur. bal ();
            else if (i== 4)
                 break;
              System. out. print ("Enter Valid Choice!");
4
```

```
← Bank.java A
  import java.util.Scanner;
class Account{
      String cn;
char t;
     char t;
int ano;
float bal=0,wit=0;
Scanner ss=new Scanner(System.in);
void dep(){
    System.out.print("Enter Amount to be
    bal=ss.nextFloat();
    System.out.print("Balance = "+bal);
}
         oid withd(){
    System.out.print("Enter Amount to be Withdrawn:");
    wit=ss.nextFloat();
    bal-=wit;
    System.out.print("Balance = "+bal);
         oid bal(){
    System.out.print("Balance = "+bal);
  class sav_acct extends Account{
  void interest(){
    float per;double in;int yr;
    System.out.print("Enter Rate of Interest(%) and years Invested:");
    per=ss.nextFloat();
    verse nextFloat();
          yr=ss.nextInt();
in=bal*Math.pow((1+(per/100)),yr);
System.out.print("Deposit Interest = "+in);
     lass curr_acct extends Account{
void pen(){
  if(bal<=2000)</pre>
               System.out.print("\nPenalty of rs.100 levied");
System.out.print("\nBalance = "+bal);
               System.out.print("\nMinimum Balance Maintained");
            ublic static void main(String args[])
          Scanner ss=new Scanner(System.in);
         Scanner ss=new Scanner(system.out.println("****Bank*****);
Account A=new Account();
System.out.print("Enter Name:");
A.cn=ss.next();
System.out.print("Enter Account No:");
A.ano=ss.nextInt();
System.out.print("Enter S for Savings or C for Current:");
System.out.print("Enter S for Savings or C for Current:");
             if (A.t=='S'|A.t=='S'){
    sav_acct sav=new sav_acct();
    do{
        System.out.print("\n\n1.Dep
        i=ss.nextInt();
                       lse if(i==2){
sav.withd();
                      lse if(i==3){
    sav.bal();
                      lse if(i==4){
  sav.interest();
                     else if(i==5){
break;
                      System.out.print("Enter Valid Choice!!");
             f(A.t == 'C'||A.t=='C'){
  curr_acct cur=new curr_acct();
                   i=ss.nextInt();
if(i==1){
    cur.dep();
                  }
else if(i==2){
   cur.withd();
   ur.pen();
                  cur.withd(
  cur.pen();
}
else
                      lse if(i==3){
cur.bal();
                  }
else if(i==4){
break;
                       System.out.print("Enter Valid Choice!!");
              }
}while(i>0);
```

## Terminal \*\*\*\*Bank\*\*\*\* Enter Name: Ahmed Enter Account No:123456 Enter S for Savings or C for Current:S 1.Deposit 2.Widthdraw 3. View Balance 4. View Deposit Interest 5.Exit Enter Choice:1 Enter Amount to be Deposited:5000 Balance = 5000.01.Deposit 2.Widthdraw 3. View Balance 4. View Deposit Interest 5.Exit Enter Choice:2 Enter Amount to be Withdrawn:600 Balance = 4400.01.Deposit 2.Widthdraw 3. View Balance 4. View Deposit Interest 5.Exit Enter Choice:3 Balance = 4400.01.Deposit 2.Widthdraw 3. View Balance 4. View Deposit Interest 5.Exit Enter Choice:4 Enter Rate of Interest(%) and years Invested:4 2 Deposit Interest = 4759.039650878913 1.Deposit 2.Widthdraw 3. View Balance 4. View Deposit Interest 5.Exit Enter Choice:5 Process finished.

```
1.Deposit
2.Widthdraw
3. View Balance
4.Exit
Enter Choice:1
Enter Amount to be Deposited:3000
Balance = 3000.0
1.Deposit
2.Widthdraw
3. View Balance
4.Exit
Enter Choice:2
Enter Amount to be Withdrawn: 1200
Balance = 1800.0
Penalty of rs.100 levied
Balance = 1700.0
1.Deposit
2.Widthdraw
3. View Balance
4.Exit
Enter Choice:3
Balance = 1700.0
1.Deposit
2.Widthdraw
3. View Balance
4.Exit
Enter Choice:5
Enter Valid Choice!!
1.Deposit
2.Widthdraw
3. View Balance
4.Exit
Enter Choice:4
Process finished.
```