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week8a - Notepad
File Edit Format View Help
import java.util.Scanner;
abstract class shape
        private int a,b;
        void setshape(int x,int y)
                 a=x;
                 b=y;
        int geta()
                return a;
        int getb()
                return b;
        abstract public void print_area();
class rectangle extends shape
1
        private int area_rect;
        rectangle(int x, int y)
                setshape(x,y);
        public void print area()
                area rect=geta()*getb();
                System.out.println("Area of rectangle is:"+area rect);
class triangle extends shape
        private double area tri;
        triangle(int x, int y)
        1
                setshape(x,y);
        public void print_area()
                area_tri=(geta()*getb())/2;
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        public void print area()
                area_tri=(geta()*getb())/2;
                System.out.println("The area of triangle is:"+area tri);
        }
class circle extends shape
1
        private double area circle;
        circle(int y)
                setshape(0,y);
        public void print area()
                area circle=((3.14)*getb()*getb());
                System.out.println("Area of circle is: "+area circle);
public class weekBa
        public static void main(String[]args){
                Scanner xx=new Scanner(System.in);
                int a.b:
                System.out.println("Enter the length of rectangle : ");
                a=xx.nextInt():
                System.out.println("Enter the breadth of rectangle : ");
                b=xx.nextInt();
                rectangle r= new rectangle(a,b);
                r.print area();
                System.out.println("Enter the height of triangle : ");
                a=xx.nextInt():
                System.out.println("Enter the base of triangle : ");
                b=xx.nextInt();
                triangle t= new triangle(a,b);
                t.print area();
                System.out.println("Enter the radius of circle : ");
                a=xx.nextInt();
                circle c= new circle(a);
                c.print area();
        }
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## Command Prompt

C:\Users\anant\JAVA A>javac week8a.java

C:\Users\anant\JAVA A>java week8a

Enter the length of rectangle :

Enter the breadth of rectangle :

Area of rectangle is:18 Enter the height of triangle :

9

Enter the base of triangle :

3 The area of triangle is:13.0

Enter the radius of circle :

Area of circle is:12.56

C:\Users\anant\JAVA A>

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week8b - Notepad
File Edit Format View Help
import java.util.Scanner;
class Account
        private String name;
        private double account no;
        private char account type;
        private double balance;
        void getdata(char ch)
                Scanner xx=new Scanner(System.in);
                System.out.print("Enter the name of the customer : ");
                name=xx.next();
                xx.nextLine();
                System.out.print("Enter the account number of the customer: ");
                account no=xx.nextDouble();
                System.out.print("Enter the balance of the customer : ");
                balance=xx.nextDouble();
                account type=ch;
        void updatebalance(double x)
                balance=balance+x;
        void updatebalance1(double x)
        {
                balance=balance-x;
        double getbalance()
                return balance;
        void displaybalance()
                System.out.println("The balance is : "+balance);
}
class Saving Account extends Account{
        private double interest rate;
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File Edit Format View Help
class Saving Account extends Account(
        private double interest_rate;
        Saving Account()
                Scanner xx=new Scanner(System.in);
                getdata('5');
                System.out.print("Enter the interest rate : ");
                interest_rate=xx.nextDouble();
        }
        void getdeposit()
                Scanner xx=new Scanner(System.in);
                System.out.print("Enter the amount to be deposited : ");
                double x=xx.nextDouble();
                updatebalance(x);
        void computeinterest()
                double x=(getbalance()*interest_rate)/100;
                updatebalance(x);
                System.out.println("The computed interest is : "+x);
                displaybalance();
        void withdrawl()
                System.out.print("Enter the amount to be withdrawn: ");
                Scanner xx=new Scanner(System.in);
                double x=xx.nextDouble();
                while(x>getbalance())
                        System.out.println("The amount withdran is more than the balance enter again : ");
                        x=xx.nextDouble();
                updatebalance1(x);
                displaybalance();
        )
}
class Current Account extends Account{
        private double min balance;
```

week8b - Notepad

```
File Edit Format View Help
class Current Account extends Account{
        private double min balance;
        private int cheque book;
        Current Account()
                Scanner xx=new Scanner(System.in);
                getdata('C');
                System.out.print("Enter the minimum balance : ");
                min balance=xx.nextDouble();
        void getdeposit()
                Scanner xx=new Scanner(System.in);
                System.out.print("Enter the amount to be deposited : ");
                double x=xx.nextDouble();
                updatebalance(x);
        void issuecheck()
                Scanner xx=new Scanner(System.in);
                System.out.print("Enter the amount of the check : ");
                double x=xx.nextDouble();
                if(x>(getbalance()-min balance))
                        System.out.println("You have issued check of more than the minmum balance and you have been charged the penalty of 100 rupees");
                        updatebalance1(100);
                else
                        updatebalance1(x);
                displaybalance();
        void withdrawl()
                System.out.print("Enter the amount to be withdrawn : ");
                Scanner xx=new Scanner(System.in);
                double x=xx.nextDouble();
                while(x>(getbalance()-min_balance))
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week8b - Notepad

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week8b - Notepad
File Edit Format View Help
                double x=xx.nextDouble();
                while(x>(getbalance()-min balance))
                        System.out.println("The amount withdran is more than the balance enter again: ");
                        x=xx.nextDouble();
                updatebalance1(x);
                displaybalance();
        }
public class week8b
        public static void main(String args[])
                Scanner input=new Scanner(System.in);
                char ch;
                System.out.println("Ebter the type of account you want (C/S): ");
                ch=input.next().charAt(0);
                if(ch=='S'||ch=='s')
                        Saving Account s=new Saving Account();
                        int x=1;
                        while(x1=0)
                                System.out.println("Enter 0 for exit : ");
                                System.out.println("Enter 1 for deposit : ");
                                System.out.println("Enter 2 for balance enquiry : ");
                                System.out.println("Enter 3 to claculate interest : ");
                                System.out.println("Enter 4 for withdrawl: ");
                                x=input.nextInt();
                                if(x==0)
                                                 break;
                                else if(x==1)
                                         s.getdeposit();
                                else if(x==2)
                                        s.displaybalance();
                                else if(x==3)
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week8b - Notepad
File Edit Format View Help
                                         s.displaybalance();
                                else if(x==3)
                                         s.computeinterest();
                                else if(x==4)
                                         s.withdrawl();
                                 }
                else
                        Current_Account s=new Current_Account();
                        int x=1;
                        while(x!=0)
                                System.out.println("Enter 0 for exit : ");
                                System.out.println("Enter 1 for deposit : ");
                                System.out.println("Enter 2 for balance enquiry : ");
                                System.out.println("Enter 3 to apply for cheque : ");
                                System.out.println("Enter 4 for withdrawl: ");
                                x=input.nextInt();
                                if(x==0)
                                                 break;
                                else if(x==1)
                                         s.getdeposit();
                                else if(x==2)
                                        s.displaybalance();
                                else if(x==3)
                                        s.issuecheck();
                                else if(x==4)
                                         s.withdrawl();
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week8b - Notepad
File Edit Format View Help
                                 else if(x==4)
                                         s.withdrawl();
                        }
                else
                {
                        Current Account s=new Current Account();
                        int x=1;
                        while(xl=0)
                        {
                                 System.out.println("Enter 0 for exit : ");
                                 System.out.println("Enter 1 for deposit : ");
                                 System.out.println("Enter 2 for balance enquiry : ");
                                 System.out.println("Enter 3 to apply for cheque : ");
                                 System.out.println("Enter 4 for withdrawl : ");
                                 x=input.nextInt();
                                 if(x==0)
                                                 break;
                                 else if(x==1)
                                         s.getdeposit();
                                 else if(x==2)
                                         s.displaybalance();
                                 else if(x==3)
                                         s.issuecheck();
                                 else if(x==4)
                                         s.withdrawl();
                                 }
                        }
               }
        }
```

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Command Prompt
Microsoft Windows [Version 10.0.19041.572]
(c) 2020 Microsoft Corporation. All rights reserved.
C:\Users\anant>cd JAVA A
C:\Users\anant\JAVA A>javac week8b.java
C:\Users\anant\JAVA A>java week8b
Ebter the type of account you want (C/S):
Enter the name of the customer : Ananth G Prabhu
Enter the account number of the customer : 1575855255
Enter the balance of the customer : 6000
Enter the minimum balance : 2000
Enter 0 for exit :
Enter 1 for deposit :
Enter 2 for balance enquiry :
Enter 3 to apply for cheque :
Enter 4 for withdrawl :
Enter the amount to be deposited : 5778
Enter 0 for exit :
Enter 1 for deposit :
Enter 2 for balance enquiry :
Enter 3 to apply for cheque :
Enter 4 for withdrawl :
The balance is : 11778.0
Enter 0 for exit :
Enter 1 for deposit :
Enter 2 for balance enquiry :
Enter 3 to apply for cheque :
Enter 4 for withdrawl :
3.
Enter the amount of the check : 3800
The balance is : 7978.0
Enter 0 for exit
Enter 1 for deposit :
Enter 2 for balance enquiry :
Enter 3 to apply for cheque :
Enter 4 for withdrawl :
a
Enter the amount to be withdrawn : 900
The balance is: 7078.0
Enter 0 for exit :
Enter 1 for deposit :
Enter 2 for balance enquiry :
Enter 3 to apply for cheque :
Enter 4 for withdrawl :
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