**EXP No 2 A) WAP to implemention a simple banking application**

Abhishek Vasant Girkar

VU4F1718022

SE/IT/A Batch B

import java.util.Scanner;

class Banking

{

public void setvalue(String n, String i, double a, double b)

{

String name=n;

String ifsc\_code=i;

double acc\_no=a;

double balance=b;}

public void credit(double balance){

Scanner sc=new Scanner(System.in);

System.out.println("ENTER AMOUNT TO BE CREDITED: ");

double amount1=sc.nextDouble();

balance=balance+amount1;

System.out.println("SUCCESSFULLY CREDITED!!\nAVAILABLE BALANCE="+balance);

}

public void debit(double balance){

Scanner sc=new Scanner(System.in);

System.out.println("ENTER AMOUNT TO BE DEBITED: ");

double amount2=sc.nextDouble();

if(amount2<balance){

balance=balance-amount2;

System.out.println("SUCCESSFULLY DEBITED!!\nAVAILABLE BALANCE="+balance);}

else System.out.println("INSUFFICIENT BALANCE!!");

}

public void display(String name,String ifsc\_code,double acc\_no, double balance){

System.out.println("YOUR INPUT DETAILS ARE");

System.out.println("NAME:" +name);

System.out.println("IFSC CODE:" +ifsc\_code);

System.out.println("A/C NO:" +acc\_no);

System.out.println("AVAILABLE BALANCE:" +balance);

}

public static void main(String[] args){

String name;

int ifsc\_code;

double balance;

double acc\_no;

final String storedpass="Java5678";

int n;

double n1;

Scanner sc=new Scanner(System.in);

Banking b1=new Banking();

do{

System.out.println("\*\*\*WELCOME TO JAVA BANK\*\*\*");

System.out.print("ENTER YOUR NAME:");

String s1=sc.next(); System.out.print("IFSC CODE: ");

String s2=sc.next(); System.out.print("A/C NO: ");

double d1=sc.nextDouble();

System.out.print("AVAILABLE BALANCE: ");

n1=sc.nextDouble();

b1.setvalue(s1,s2,d1,n1);

b1.display(s1,s2,d1,n1);

System.out.print("IF DETAILS ARE CORRECT ENTER 1 ELSE ENTER 0:");

n=sc.nextInt();

}while(n==0);

balance=n1;

System.out.print("ENTER YOUR PASSWORD: ");

String s3=sc.next();

if(s3.equals(storedpass)) //(53==storedpass) returns false even if password entered is correct.

{

System.out.println("ENTER YOUR CHOICE\n1.CREDIT\n2.DEBIT");

int ch=sc.nextInt();

switch(ch)

{

case 1:b1.credit(balance);

break;

case 2:b1.debit(balance);

break;

default:System.out.println("INVALID CHOICE!");

break;

}}

else

{

System.out.println("INVALID PASSWORD!");

}}}

/\* OUTPUT

C:\Users\abhishek123\Desktop\java docs>java Banking

\*\*\*WELCOME TO JAVA BANK\*\*\*

ENTER YOUR NAME:Abhishek Girkar

IFSC CODE:400028

A/C NO: 1718022

AVAILABLE BALANCE: 10000

YOUR INPUT DETAILS ARE

NAME:Abhishek Girkar

IFSC CODE:400028

A/C NO:1718022.0

AVAILABLE BALANCE:10000.0

IF DETAILS ARE CORRECT ENTER 1 ELSE ENTER 0:1

ENTER YOUR PASSWORD: Java5678

ENTER YOUR CHOICE

1.CREDIT

2.DEBIT

1

ENTER AMOUNT TO BE CREDITED:

50000

SUCCESSFULLY CREDITED!!

AVAILABLE BALANCE=60000.0

**EXP no. 2 B) write a java program to calculate Addition of two complex numbers**

Abhishek Vasant Girkar

SE/IT/A

VU4F1718022

import java.util.Scanner;

class complex

{

int real;

int img;

complex()

{

System.out.println("\*\*\*\*\*\*\*\*Complex Number operation \*\*\*\*\*\*\*\*\*\*\*\*\*");

}

complex(int r,int i)

{

real=r;

img=i;

}

complex( complex c1, complex c2)

{

int r=c1.real+c2.real;

int i= c1.img+c2.img;

System.out.printf("Addition is %d+(%d)i",r,i);

r=c1.real-c2.real;

i= c1.img-c2.img;

System.out.printf("\nSubtraction is %d+(%d)i",r,i);

r=(c1.real\*c2.real)-(c1.img\*c2.img);

i=(c1.real\*c2.img)+(c2.real\*c1.img);

System.out.printf("\nMultipliction is %d+(%d)i",r,i);

}

public static void main(String arg[])

{

Scanner sc= new Scanner(System.in);

complex c=new complex();

System.out.println("enter real and imaginary part of complex number 1");

int n1= sc.nextInt();

int n2=sc.nextInt();

System.out.printf("complex no 1 : %d+(%d)i\n",n1,n2);

System.out.println("enter real and imaginary part of complex number 2");

int n3= sc.nextInt();

int n4=sc.nextInt();

System.out.printf("complex no 2 : %d+(%d)i\n",n3,n4);

complex c1=new complex(n1,n2);

complex c2=new complex(n3,n4);

complex c3= new complex(c1,c2);

}

}

/\*

OUTPUT

C:\Users\abhishek123\Desktop>javac complex.java

C:\Users\abhishek123\Desktop>java complex

\*\*\*\*\*\*\*\*Complex Number operation \*\*\*\*\*\*\*\*\*\*\*\*\*

enter real and imaginary part of complex number 1

12

24

complex no 1 : 12+(24)i

enter real and imaginary part of complex number 2

-19

-25

complex no 2 : -19+(-25)i

Addition is -7+(-1)i

Subtraction is 31+(49)i

Multipliction is 372+(-756)i\*/

**Experiment No 2(C): Demonstrate string Function.**

Abhishek Vasant Girkar

SE /IT/A

VU4F1718022

import java.util.Scanner;

class Str

{

public static void main (String arg [])

{

Scanner sc= new Scanner(System.in);

String s1,s2,s3;

System.out.println("Enter the First name");

s1= sc.nextLine();

System.out.println("Enter the Last name");

s2= sc.nextLine();

System.out.println("Enter the Middle name");

s3= sc.nextLine();

System.out.printf("First name contained %d character\nLast name contained %d character\nMiddle name contained %d character\n",s1.length(),s2.length(),s3.length());

System.out.println("You name is "+(s1.concat(s2)));

System.out.println("You Full name is "+(s2.concat( s1.concat( s3))));

String s4= " "+s1+" "+s3+" "+s2+" ";

System.out.println(s4);

System.out.println("Lower case:"+s4.toLowerCase());

System.out.println("Upper case:"+s4.toUpperCase());

System.out.println("Do you want to change your first name");

System.out.println("Press 1 to chaange your first name");

int ch=sc.nextInt();

if(ch==1){

System.out.println("enter the First name");

String s5= sc.next();

System.out.println(s4.replace(s1,s5));

s4=s4.replace(s1,s5);

System.out.println("Lower case:"+s4.toLowerCase());

System.out.println("Upper case:"+s4.toUpperCase());

System.out.println("Trim :"+s4.trim());

}

String s6 ;

System.out.println("enter word to check pallindrome");

s6=sc.next();

String reverse;

reverse = new StringBuilder(s6).reverse().toString();

if( s6.equals(reverse))

System.out.printf("%s IS PALLINDROM",s6);

else

System.out.printf("%s isnot Pallindrom",s6);

}

}

OUTPUT

Enter the First name

Abhishek

Enter the Last name

Girkar

Enter the Middle name

Vasant

First name contained 8 character

Last name contained 6 character

Middle name contained 6 character

You name is AbhishekGirkar

You Full name is GirkarAbhishekVasant

Abhishek Vasant Girkar

Lower case: abhishek vasant girkar

Upper case: ABHISHEK VASANT GIRKAR

Do you want to change your first name

Press 1 to chaange your first name

1

enter the First name

Amey

Amey Vasant Girkar

Lower case: amey vasant girkar

Upper case: AMEY VASANT GIRKAR

Trim :Amey Vasant Girkar

enter word to check pallindrome

MALAYALAM

MALAYALAM IS PALLINDROM