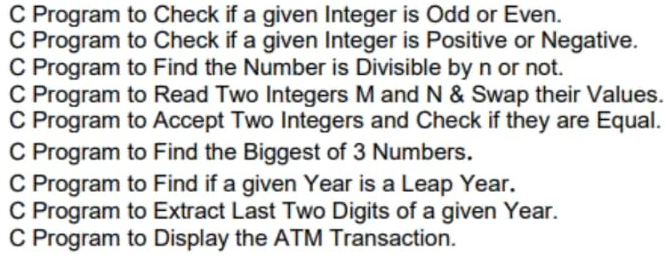
ASSIGNMENT N0.3

BASIC PROGRAMS



**package** p1;

**import** java.util.\*;

**public** **class** Task2 {

**void** EorO(**int** a) {

**if**(a%2==0) {

System.***out***.println("the given nos "+a+"is Even");

}

**else** {

System.***out***.println("the given nos "+a+" is odd");

}

}

**void** PoN(**int** a) {

**if**(a<0) {

System.***out***.println("the given nos "+a+"is negative");

}

**if**(a>=0) {

System.***out***.println("the given nos "+a+"is positive");

}

}

**void** Div(**int** nos,**int** n) {

**if**(nos%n==0) {

System.***out***.println("the given nos "+nos+"is divisible by "+n);

}

**else** {

System.***out***.println("the given nos "+nos+"is not divisible by "+n);

}

}

**void** swap(**int** n,**int** m) {

**int** temp;

System.***out***.println("BEFORE SWAPPING \nthe given nos m= "+m+"\n n="+n);

temp=m;

m=n;

n=temp;

System.***out***.println("AFTER SWAPPING \nthe given nos m= "+m+"\n n="+n);

}

**void** equal() {

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("enter a no. ");

**int** n=sc.nextInt();

System.***out***.println("enter a no. ");

**int** m=sc.nextInt();

**if**(n==m) {

System.***out***.println("they are equal");

}

**else** {

System.***out***.println("they are not equal");

}

}

**void** Big(**int** a,**int** b,**int** c) {

**if**(a>b && a>c) {

System.***out***.println(a+"is the biggest");

}

**if**(b>c && b>a) {

System.***out***.println(b+"is the biggest");

}

**else** {

System.***out***.println(c+"is the biggest");

}

}

**void** leap(**int** y) {

**if**(y%4==0) {

System.***out***.println(y+" is a leapyear");

}

**else** **if**(y%400==0 && y%100==0) {

System.***out***.println(y+"is aleapyear");

}

**else** {

System.***out***.println(y+"is not a leapyear");

}

}

**void** LastDigit(**int** y) {

**int** d,x,sum=0;

x=y;

**int** o=1;

**if**(y<=99) {

System.***out***.println("the two digit is of"+y+"is"+y);

}

**else** {

**while**(y>99) {

d=y%10;

sum=sum+d\*o;

y=y/10;

o=o\*10;

System.***out***.println(sum+" "+d+" "+y);

}

}

System.***out***.println("the two digit is of"+x+"is"+sum);

}

**public** **static** **void** main(String args[]) {

Task2 t=**new** Task2();

System.***out***.println("EVEN OR ODD");

t.EorO(98);

System.***out***.println("POS OR NEGATIVE");

t.PoN(-10);

System.***out***.println("DIVISIBLE OR NOT");

t.Div(87, 4);

System.***out***.println("SWAP");

t.swap(5, 7);

System.***out***.println("EQUALS OR NOT");

t.equal();

System.***out***.println("BIGGEST");

t.Big(534, 123, 987);

System.***out***.println("LEAP YEAR OR NOT");

t.leap(2000);

System.***out***.println("EVEN OR ODD");

t.LastDigit(1975);

}

}

O/P:

EVEN OR ODD

the given nos 98is Even

POS OR NEGATIVE

the given nos -10is negative

DIVISIBLE OR NOT

the given nos 87is not divisible by 4

SWAP

BEFORE SWAPPING

the given nos m= 7

n=5

AFTER SWAPPING

the given nos m= 5

n=7

EQUALS OR NOT

enter a no.

2

enter a no.

2

they are equal

BIGGEST

987is the biggest

LEAP YEAR OR NOT

2000 is a leapyear

EVEN OR ODD

5 5 197

75 7 19

the two digit is of1975is75

ATM:

**package** p1;

**import** java.util.\*;

**class** users{

String name="";

**int** pin;

**int** bal;

}

**public** **class** ATM {

Scanner sc=**new** Scanner(System.***in***);

**int** tu=0;

**int** Display(users a[]) {

System.***out***.println("\t\tWELCOME TO OUR ATM");

System.***out***.println("\n\t 1.NEW USER\t\t 2.OLD USER");

**int** ch=sc.nextInt();

**if**(ch==1) {

tu=new\_Users(a)+2;

}

**return** tu;

}

**void** Display1(String str) {

**int** i=0;

System.***out***.println("\t\tWELCOME "+str.toUpperCase());

System.***out***.println("1.Change User\t\t2.Check balance\n3.Withdrawal\t\t4.Deposit\n5.Exit");

System.***out***.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

**if**(i>0) {

System.***out***.println("choice...");

}

i++;

}

**int** new\_Users(users a[]) {

**int** n=0;

{

System.***out***.print("enter no. of users :");

n=sc.nextInt();

**for**(**int** i=2;i<n+2;i++) {

a[i]=**new** users();

System.***out***.print("\nenter new user name :");

a[i].name=sc.next();

System.***out***.print("\nenter New Password :");

a[i].pin=sc.nextInt();

System.***out***.print("\nenter user bal :");

a[i].bal=sc.nextInt();

System.***out***.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

}

System.***out***.println("choice...");

}

**return** n;

}

**int** CheckCred(users a[],**int** n){

**int** flag=0;

**int** id=0;

System.***out***.print("\nenter user name :");

String str=sc.next();

**for**(**int** i=0;i<=n+2;i++) {

**if**(a[i].name.equals(str)) {

System.***out***.print("\nenter your pin :");

**int** p=sc.nextInt();

flag++;

**if**(p==a[i].pin) {

id=i;

**return** id;

}

**else** {

System.***out***.println("pin is incorrect");

**break**;

}

}

}

**if**(flag==0) {

System.***out***.println("User not found");

}

**return** 100;

}

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int** ch=0;

**int** n=0;

ATM D=**new** ATM();

**int** i=0;

Scanner sc=**new** Scanner(System.***in***);

users a[]=**new** users[5];

users b=**new** users();

a[0]=**new** users();

a[0].name="sri";

a[0].pin=1234;

a[0].bal=1000;

a[1]=**new** users();

a[1].name="bose";

a[1].pin=1234;

a[1].bal=0;

n=D.Display(a);

i=D.CheckCred(a, n);

D.Display1(a[i].name);

**do** {

ch=sc.nextInt();

**switch**(ch){

**case** 1:{

**if**(i>100) {

D.new\_Users(a);

D.Display1(b.name);

**break**;

}

**else** {

i=D.CheckCred(a, n);

D.Display1(a[i].name);

}

**break**;

}

**case** 2:{

**if**(i>100) {

D.Display1(b.name);

**break**;

}

**else** {

System.***out***.println("Your balance is "+a[i].bal+"\n");

D.Display1(a[i].name);

System.***out***.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

**break**;

}

}

**case** 3:{

**if**(i>100) {

D.Display1(b.name);

**break**;

}

**else** {

**int** amt;

System.***out***.print("\nENTER THE AMOUT TO DEBIT: ");

amt=sc.nextInt();

a[i].bal=a[i].bal-amt;

System.***out***.print("\n"+amt+" AMOUT IS DEBITED");

D.Display1(a[i].name);

System.***out***.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

**break**;

}

}

**case** 4:{

**if**(i>100) {

D.Display1(b.name);

**break**;

}

**else** {

**int** amt;

System.***out***.println("ENTER THE AMOUT TO DEPOSIT: ");

amt=sc.nextInt();

a[i].bal=a[i].bal+amt;

System.***out***.println(amt+" AMOUT IS DEPOSITED");

D.Display1(a[i].name);

System.***out***.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

**break**;

}

}

**case** 5:{

System.***out***.println("THANKS OF USING OUR ATM\nHAVE A NICE DAY");

**break**;

}

**default**:{

System.***out***.println("invalid command");

**break**;

}

}

}**while**(ch!=5);

}

}

O/P:

WELCOME TO OUR ATM

1.NEW USER 2.OLD USER

1

enter no. of users :1

enter new user name :shank

enter New Password :1234

enter user bal :2000

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

choice...

enter user name :sri

enter your pin :1234

WELCOME SRI

1.Change User 2.Check balance

3.Withdrawal 4.Deposit

5.Exit

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2

Your balance is 1000

WELCOME SRI

1.Change User 2.Check balance

3.Withdrawal 4.Deposit

5.Exit

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4

ENTER THE AMOUT TO DEPOSIT:

2000

2000 AMOUT IS DEPOSITED

WELCOME SRI

1.Change User 2.Check balance

3.Withdrawal 4.Deposit

5.Exit

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2

Your balance is 3000

WELCOME SRI

1.Change User 2.Check balance

3.Withdrawal 4.Deposit

5.Exit

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1

enter user name :shank

enter your pin :1234

WELCOME SHANK

1.Change User 2.Check balance

3.Withdrawal 4.Deposit

5.Exit

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2

Your balance is 2000

WELCOME SHANK

1.Change User 2.Check balance

3.Withdrawal 4.Deposit

5.Exit

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3

ENTER THE AMOUT TO DEBIT: 500

500 AMOUT IS DEBITED WELCOME SHANK

1.Change User 2.Check balance

3.Withdrawal 4.Deposit

5.Exit

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2

Your balance is 1500

WELCOME SHANK

1.Change User 2.Check balance

3.Withdrawal 4.Deposit

5.Exit

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5

THANKS OF USING OUR ATM

HAVE A NICE DAY