

```
package ProjectBankManagement;
import java.util.Scanner;
public abstract class Test {
    abstract void showInfo();
}
}
```

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package ProjectBankManagement;
```

```
import java.util.Scanner;
```

```
public class Account extends Test {
    private String name,acc_type,acc_num;
    private double balance;
    Scanner s = new Scanner(System.in);

    Account()
    {
        System.out.print("Enter Name: ");
        setName(s.next());

        System.out.print("Enter Account type: ");
        setacc_type(s.next());

        System.out.println("Enter Account Number: ");
        setacc_num(s.next());

        System.out.println("Enter Balance: ");
        setBalance(s.nextInt());
    }

    public void setName(String name)
    {
        this.name= name;
    }
    public String getName(){
        return name;
    }

    public void setacc_type(String acc_type){
        this.acc_type=acc_type;
    }
    public String getacc_type(){
        return acc_type;
    }

    public void setacc_num(String acc_num){
        this.acc_num=acc_num;
    }
    public String getacc_num(){
        return acc_num;
    }
}
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    public void setBalance(double balance){
        this.balance=balance;
    }
    public double getBalance(){
        return balance;
    }

    public void showInfo()

    {
        System.out.println(getName() + "\r\n" + getacc_type() + "\r\n" +
getacc_num() + "\r\n" + getBalance());
    }

    public void deposit()
    {
        double amount;
        System.out.println("Enter Amount to Deposit : ");
        amount = s.nextDouble();
        balance += amount;
        System.out.println("Present Balance:"+balance);
    }

    public void withdrawl() {
        double amount;

        System.out.println("Enter amount to withdraw: ");
        amount = s.nextDouble();
        if (balance >= amount) {
            balance -= amount;
            System.out.println("Current Balance: " + balance);
        }
        else
        {
            System.out.println("Less Balance..Can Not Withdraw..");
        }
    }
    boolean search(String acn) {
        if (acc_num.equals(acn)) {
            showInfo();
            return (true);
        }
        return (false);
    }
}

}

```

```

package ProjectBankManagement;
import java.io.File;
import java.io.FileWriter;
import java.util.Scanner;
public class MainMenu {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner s = new Scanner(System.in);
        File file1= new File("BANK MANAGEMENT");
        try {
            file1.createNewFile();
            System.out.println("File is created");
        }
        catch(Exception e){
            System.out.println("Exception :"+e);
        }
        try {
            FileWriter f1 = new FileWriter("BANK MANAGEMENT");
            f1.write("_WELCOME TO BANK OF ASIA_");
            System.out.println("*****START*****");
            f1.close();

        }
        catch(Exception e){
            System.out.println("Exception :"+e);
        }
        try {
            Scanner read = new Scanner(file1);
            while (read.hasNextLine()) {
                String data= read.nextLine();
                System.out.println(data);
            }
            read.close();
        }
        catch(Exception e){
            System.out.println("Exception :"+e);}
        System.out.println("How many accounts you want to insert: ");
        int n = s.nextInt();
        Account a[] = new Account[n];
        for (int i = 0; i < a.length; i++)
        {
            a[i] = new Account();
        }
        System.out.println("*****");

        int userChoice;
        boolean quit = false;

        do
        {
            System.out.println("Press 1 to Show all Info");
            System.out.println("Press 2 to Search Account ");
            System.out.println("Press 3 to Deposit Money");

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System.out.println("Press 4 to Withdraw Money");
System.out.println("Press 0 to quit: \n");
System.out.print("Enter Your Choice : ");
userChoice = s.nextInt();
switch (userChoice)
{
case 1:
    for (int i = 0; i < a.length; i++) {
        a[i].showInfo();
    }
    System.out.println("*****");
    break;

case 2:
    System.out.print("Enter Account Number to Search: ");
    String acn = s.next();
    boolean found = false;
    for (int i = 0; i < a.length; i++) {
        found = a[i].search(acn);
        if (found) {
            break;
        }
    }
    if (!found) {
        System.out.println("Search Failed..Account doesnt Exist..");
    }
    System.out.println("*****");
    break;

case 3:
    System.out.print("Enter Account Number: ");
    acn = s.next();
    found = false;
    for (int i = 0; i < a.length; i++) {
        found = a[i].search(acn);
        if (found) {
            a[i].deposit();
            break;
        }
    }
    if (!found) {
        System.out.println("Search Failed..Account doesnt Exist..");
    }

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

case 4:
    System.out.print("Enter Account Number : ");
    acn = s.next();
    found = false;
    for (int i = 0; i < a.length; i++) {
        found = a[i].search(acn);
        if (found) {

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        a[i].withdrawl();
    }
}

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

case 0:
    quit = true;
    break;
default:
    System.out.println("Wrong Choice.");
    break;
}

    System.out.println("\n");

while (!quit);

System.out.println("Thank you!");
System.out.println("*****END*****");

    }

}

```

OUTPUT:

main menu (Java Application) C:\Program Files\Java\jdk-14.0.1\bin\javaw.exe (Sep 16, 2020, 9:24:31 PM)

File is created

*****START*****

WELCOME TO BANK OF ASIA

How many accounts you want to insert:

1

Enter Name: EMMA

Enter Account type: SAVING

Enter Account Number: 111

Enter Balance: 500000

Press 1 to Show all Info

Press 2 to Search Account

Press 3 to Deposit Money

Press 4 to Withdraw Money

Press 0 to quit:

Enter Your Choice : 3

Enter Account Number: 111

EMMA

SAVING

111

500000.0

Enter Amount to Deposit :

3000

Present Balance:503000.0

Press 1 to Show all Info

Press 2 to Search Account

Press 3 to Deposit Money

Outline

Account()

• setName(String)

• getName() : Stri

• setacc_type(Stri

• getacc_type() :

• setacc_num(Stri

• getacc_num() :

• setBalance(dou

• getBalance() : d

• showInfo() : voi

• deposit() : void

• withdraw() : vo

• search(String) :

9:56 PM

