Include front page and acknowledgement, index page, source code, output, variable description, conclusion, etc. in your project before taking the print out.

```
//Bank Project
import java.util.Scanner;
class Bank
{
    String name[],amount[],ac[],acno[],particulars[],tran[][];
    /*'name'to hold names,'amount'to hold initial amount,'ac'will hold
type of account(savings)and 'acno'will hold account number,'tran' will
hold the transaction,'particulars will hold detail of transaction*/
    double dep;              //'dep' will hold account type
  Scanner sc=new Scanner(System.in);
    int index = 0;          // it will be the index of above declared arrays
    int trainindex=0;       //it will be used in the transaction array
  Bank()             //Default constructor to initialize the instance variables
  {
      name  =new String[50];
      tran=new String[50][6];
      particulars=new String[50];
      amount = new String[50];
      ac=new String[50];
```

```java
        acno=new String[50];
    }


    void  initial()throws IOException
    {
        int i;
        String date1;
        String op="yes";
        while(!op.equalsIgnoreCase("NO"))
        {
            int tranindex=0;
            System.out.println("Date");
            date1=sc.nextLine().toUpperCase();
            System.out.println("Name:");
            name[index]=sc.nextLine().toUpperCase();
            //particulars[index]="B/F;
            System.out.println("A/cNo:");
            acno[index]=sc.nextLine().trim();
            System.out.println("initial Amount:");
            amount[index]=sc.nextLine().trim();
            System.out.println("which type of A/c -(Press'S' for savings,'C' for
Current,'R' for Reccuring,'F' for Fixed deposit):");
            ac[index]=sc.nextLine().trim().toUpperCase();
            tran[tranindex][0]=date1;
```

```java
        tran[tranindex][1]="B/F";



        tran[tranindex][2]=acno[index];

        tran[tranindex][3]="d";

        tran[tranindex][4]= amount[index];

        tran[tranindex][5]=amount[index];

        tranindex++;

        System.out.println("Any More(yes/no:");

        op=sc.nextLine().trim();

        index++;

    }

}

void   transaction()throws IOException

{

    int i;

    double amount1;

    String

    date1,dep1,account;

    String pat;

    /*'amount1' will hold the transaction amount,'date1' to hold the
transaction date,'dep1' will hold mode of transaction,'account' will hold
account no.'pat' will hold particulars */
```

```java
System.out.println(" enter the transaction type(d for depoist/w for withdrawl):");



dep1=sc.nextLine().trim().toLowerCase();
System.out.println("enter the amount:");
amount1=Double.parseDouble(sc.nextLine());
System.out.println("enter the Particulars:");
pat=sc.nextLine().trim();
System.out.println("A/c No.:");
account=sc.nextLine().trim();
System.out.println("Date of transacyion:");
date1=sc.nextLine().trim();
for(i=0;i<index;i++)
{
   if(account.equals(acno[i]))
      break;
}
if(i==index)
   System.out.println("This A/c No.does not exist:");
else
{
   if(dep1.equals("w"))
```

```java
      {




        if(Double.parseDouble(amount[i])-amount1<500)
        {
          System.out.println("Insufficient Balance");
        }
      else
        {
          int tranindex=0;
          amount[i]=String.valueOf(Double.parseDouble(amount[i])-amount1);
          tran[tranindex][0]=date1;
          tran[tranindex][1]=pat;
          tran[tranindex][2]=account;
          tran[tranindex][3]="w";
          tran[tranindex][4]=String.valueOf(amount1);
          tran[tranindex][5]=String.valueOf(amount[i]);
          tranindex++;
        }
      }
      else
```

```java
        if(dep1.equals("d"))
        {



            int tranindex=0;
amount[i]=String.valueOf(Double.parseDouble(amount[i]+amount1));
            tran[tranindex][0]=date1;      // date of transaction
            tran[tranindex][1]=pat;        //particulars
            tran[tranindex][2]=account;    //account number
            tran[tranindex][3]="d";        //mode of transaction
            tran[tranindex][4]=String.valueOf(amount1);//transaction
amount
            tran[tranindex][5]=String.valueOf(amount[i]);//balance
tranindex++;
        }
    }
  }
  void    display(String s1)
  {
    int i,j;
    for(i=0;i<index;i++)
    {
      if(s1.equals(acno[i]))
          break;
```

```java
        }




    if(i==index)
        System.out.println("This A/c No.does not exist:");
      else
{

        int tranindex=0;
        System.out.println("name of the A/C holder="+name[i]);
        System.out.println("A/c No.:"+s1);
        System.out.println("A/c type:"+ac[i]);
        System.out.println("Balance Rs:"+amount[i]);
        System.out.println("*************\n");
        System.out.println("Date Particulars withdrawn Depoisted
Balance\n");
        for(j=0;j<tranindex;j++)
        {
          if(s1.equals(tran[j][2]))
          {
            if(tran[j][1].equals("B/F"))
              System.out.println(tran[j][0]+""+tran[j][1]+""+tran[j][5]);
            else   if(tran[j][3].equals("w"))
```

```java
                System.out.println(tran[j][0]+""+tran[j][4]+""+tran[j][5]);




    else     if(tran[j][3].equals("d"))
                System.out.println(tran[j][0]+""+tran[j][4]+""+tran[j][5]);
        }     }    }  }
public static void main(String args[])throws IOException
 {
    String ans="yes";
   Scanner sc =new Scanner(System.in);
    Bank ob=new Bank();
    ob.initial();
    while(!ans.equalsIgnoreCase("No"))
    {
       ob.transaction();
       System.out.println("Any More(yes/no:");
       ans=sc.nextLine().trim();
    }
    System.out.println("A/C number to search:");
    String s=sc.nextLine().trim();
    ob.display(s);
```

```
    }
}
```