



EduBridge Learning Pvt.Ltd

Center: Salem-Algapuram

A Mini Project Report

On

Simple Banking Application

PRESENTED BY

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Introduction

We will learn how to create a mini-application for a banking system in Java. In this program, we will add some basic functionalities of a bank account like a deposit of amount, withdrawal of amount, etc. Initially, the program accepts the number of customers we need to add and adds the customer and account details accordingly. Further, it displays the series of menus to operate over the accounts.

System Requirements

Software Requirements:

Name of the component	Specification
Operating	Windows
Code Editor	Eclipse IDE
Languages	JAVA

Hardware Requirements:

Name of the component	Specification
Processor	Intel Core i5
Ram	8 GB
Hard Disk	1 TB
System Type	64-bit Operating System

Source Code

```
package bankingsystem;

import java.util.Scanner;
class BankDetails {
    private String accno;
    private String name;
    private String add;
    private String acc_type;
    private long balance;
    Scanner sc = new Scanner(System.in);
    //method to open new account
    public void openAccount() {
        System.out.println("-----");
        System.out.println("-----");
        System.out.print("Enter Account No: ");
        accno = sc.next();
        System.out.print("Enter Account type: ");
        acc_type = sc.next();
        System.out.print("Enter Name: ");
        name = sc.next();
        System.out.print("Enter Address: ");
        add = sc.next();
        System.out.print("Enter Balance: ");
        balance = sc.nextLong();

    }
    //method to display account details
    public void showAccount() {
        System.out.println("Name of account holder: " + name);
        System.out.println("Address of account holder: " + add);
        System.out.println("Account no.: " + accno);
        System.out.println("Account type: " + acc_type);
        System.out.println("Balance: " + balance);
    }
    //method to deposit money
    public void deposit() {
        long amt;
        System.out.print("Enter the amount you want to deposit: ");
        amt = sc.nextLong();
        balance = balance + amt;
    }
    //method to withdraw money
```

```

public void withdrawal() {
    long amt;
    System.out.println("Enter the amount you want to withdraw: ");
    amt = sc.nextLong();
    if (balance >= amt) {
        balance = balance - amt;
        System.out.println("Balance after withdrawal: " + balance);
    } else {
        System.out.println("Your balance is less than " + amt + "\tTransaction failed...!!" );
    }
}

//method to search an account number
public boolean search(String ac_no) {
    if (accno.equals(ac_no)) {
        showAccount();
    }
    return (true);
}
return (false);
}
}

public class bank {
    public static void main(String arg[]) {
        Scanner sc = new Scanner(System.in);
        //create initial accounts
        System.out.print("How many number of customers do you want to Create? ");
        int n = sc.nextInt();
        BankDetails C[] = new BankDetails[n];

        for (int i = 0; i < C.length; i++)
        {

            C[i] = new BankDetails();
            C[i].openAccount();
        }
        // loop runs until number 5 is not pressed to exit
        int ch;
        do {
            System.out.println("\n-----
            -----");
            System.out.println("\n                                     ***Banking System Application**
            ");
            System.out.println("\n-----
            -----");

            System.out.println("\n 1. Display all account details \n 2. Balance Checking with A/c \n
            3. Deposit the amount \n 4. Withdraw the amount \n 5. Exit ");

```

```

        System.out.println("-----");
        -----");

        System.out.println("Enter your choice: ");
        ch = sc.nextInt();
        switch (ch) {
        case 1:
        for (inti = 0; i<C.length; i++) {
        C[i].showAccount();
        }
        break;
        case 2:
                System.out.print("Enter account no!..you want to check..... ");
                String ac_no = sc.next();
        boolean found = false;
        for (inti = 0; i<C.length; i++) {
        found = C[i].search(ac_no);
        if (found) {
        break;
        }
        }
        if (!found) {
                System.out.println("\n-----");
                -----");

                System.out.println("Search failed! Account doesn't exist..!!");
        }
        break;
        case 3:
                System.out.print("Enter Account no. : ");
        ac_no = sc.next();
        found = false;
        for (inti = 0; i<C.length; i++) {
        found = C[i].search(ac_no);
        if (found) {
        C[i].deposit();
        break;
        }
        }
        if (!found) {
                System.out.println("\n-----");
                -----");

                System.out.println("Search failed! Account doesn't exist..!!");
        }
        break;

```

case 4:

```
        System.out.print("Enter Account No : ");
ac_no = sc.next();
found = false;
for (inti = 0; i<C.length; i++) {
    found = C[i].search(ac_no);
    if (found) {
        C[i].withdrawal();
        break;
    }
}
if (!found) {
    System.out.println("\n-----
-----");

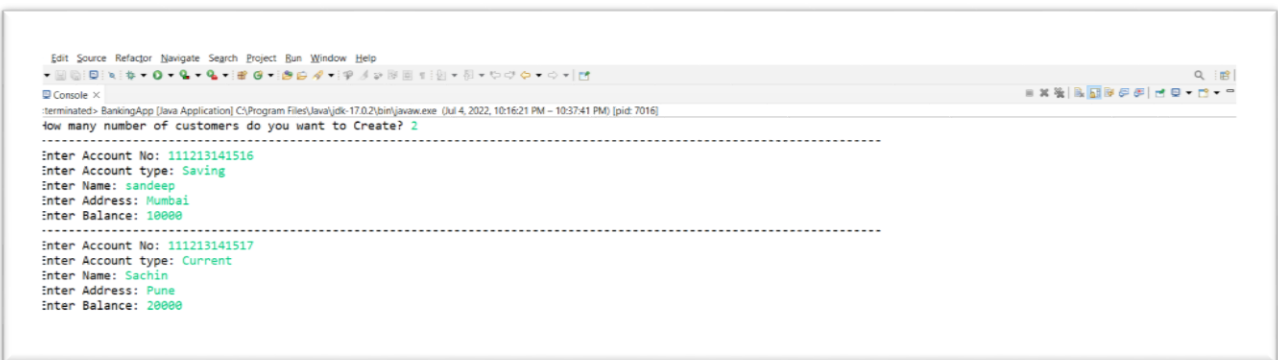
    System.out.println("Search failed! Account doesn't exist..!!");
}
break;
case 5:
    System.out.println("Thank You for using BankingApp!.....");
    System.out.println("See you soon.....");
break;
    }
}
while (ch != 5);
}
```


Output

Screenshot:

Steps 1.

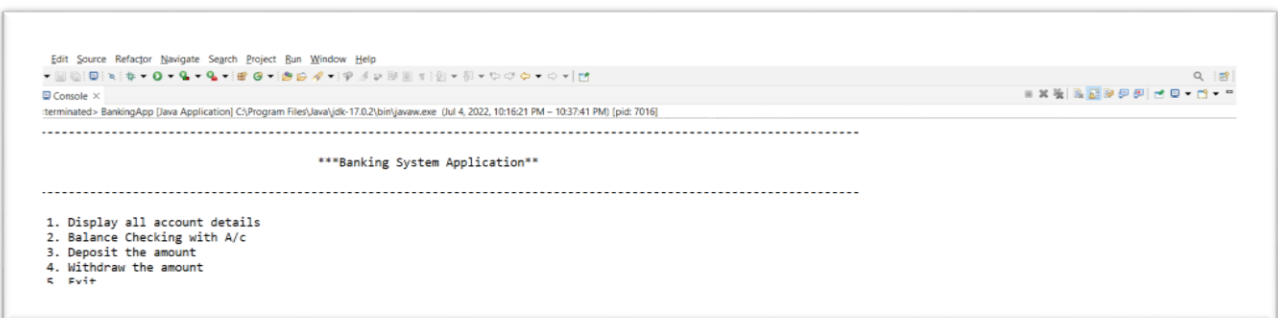
1st We are Run this code by eclipse. And We Enter How many numbers of customers do you want to Create.Entered—> 2



```
terminated> BankingApp [Java Application] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (Jul 4, 2022, 10:16:21 PM ~ 10:37:41 PM) [pid: 7016]
how many number of customers do you want to Create? 2
-----
Enter Account No: 111213141516
Enter Account type: Saving
Enter Name: sandeep
Enter Address: Mumbai
Enter Balance: 10000
-----
Enter Account No: 111213141517
Enter Account type: Current
Enter Name: Sachin
Enter Address: Pune
Enter Balance: 20000
```

Steps 2.

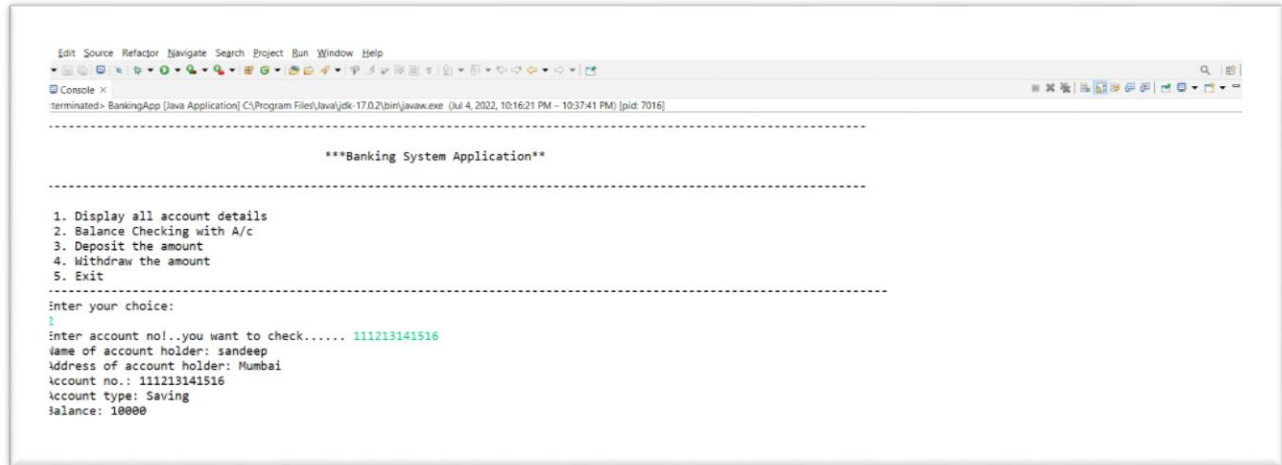
Now Shows Banking System Applications- there are 5 menu Option:



```
terminated> BankingApp [Java Application] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (Jul 4, 2022, 10:16:21 PM ~ 10:37:41 PM) [pid: 7016]
-----
***Banking System Application**
-----
1. Display all account details
2. Balance Checking with A/c
3. Deposit the amount
4. Withdraw the amount
5. Exit
```

Steps 3.

Here we are Enter 2, For checking Balance:



```

Edit Source Refactor Navigate Search Project Run Window Help
Console x
terminated> BankingApp [Java Application] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (Jul 4, 2022, 10:16:21 PM ~ 10:37:41 PM) [pid: 7016]

***Banking System Application**

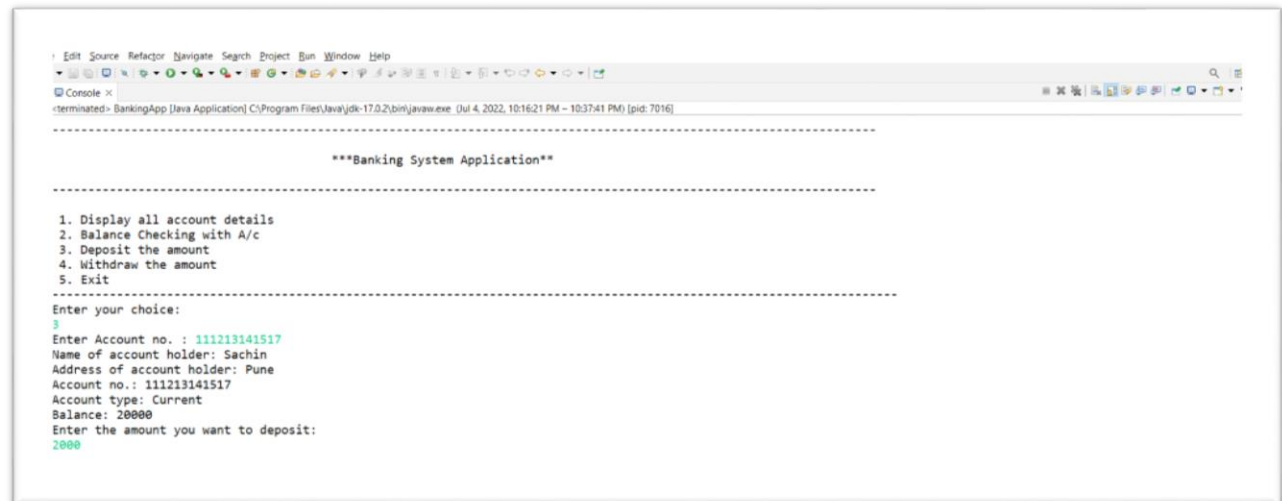
-----

1. Display all account details
2. Balance Checking with A/c
3. Deposit the amount
4. Withdraw the amount
5. Exit
-----
Enter your choice:
2
Enter account no!..you want to check..... 111213141516
Name of account holder: sandeep
Address of account holder: Mumbai
Account no.: 111213141516
Account type: Saving
Balance: 10000

```

Steps 4.

Next option 3 choose: for Deposit amount:



```

Edit Source Refactor Navigate Search Project Run Window Help
Console x
terminated> BankingApp [Java Application] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (Jul 4, 2022, 10:16:21 PM ~ 10:37:41 PM) [pid: 7016]

***Banking System Application**

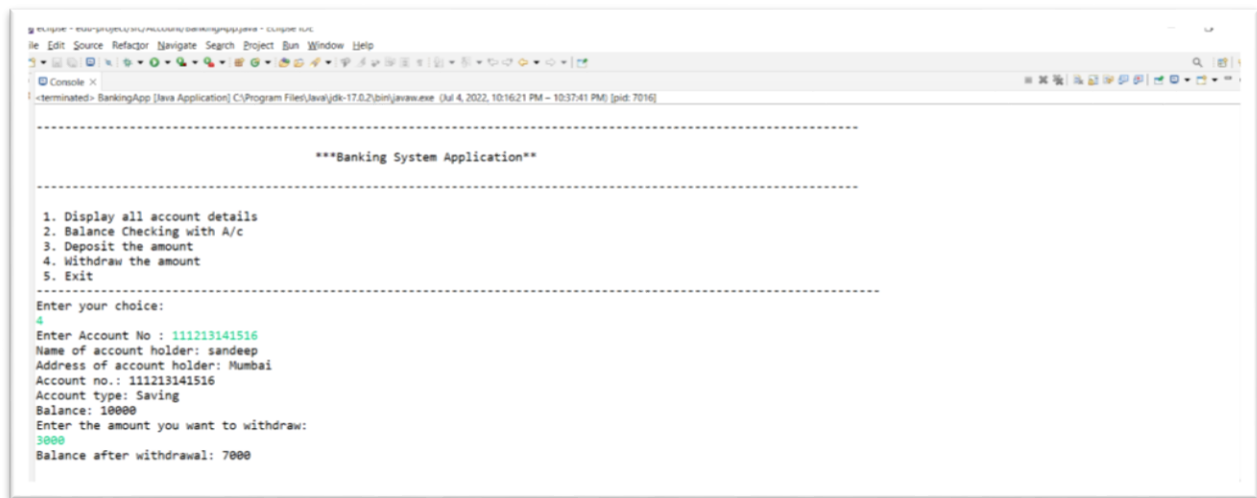
-----

1. Display all account details
2. Balance Checking with A/c
3. Deposit the amount
4. Withdraw the amount
5. Exit
-----
Enter your choice:
3
Enter Account no. : 111213141517
Name of account holder: Sachin
Address of account holder: Pune
Account no.: 111213141517
Account type: Current
Balance: 20000
Enter the amount you want to deposit:
2000

```

Steps 5.

Next option 4 choose: for Withdraw amount:



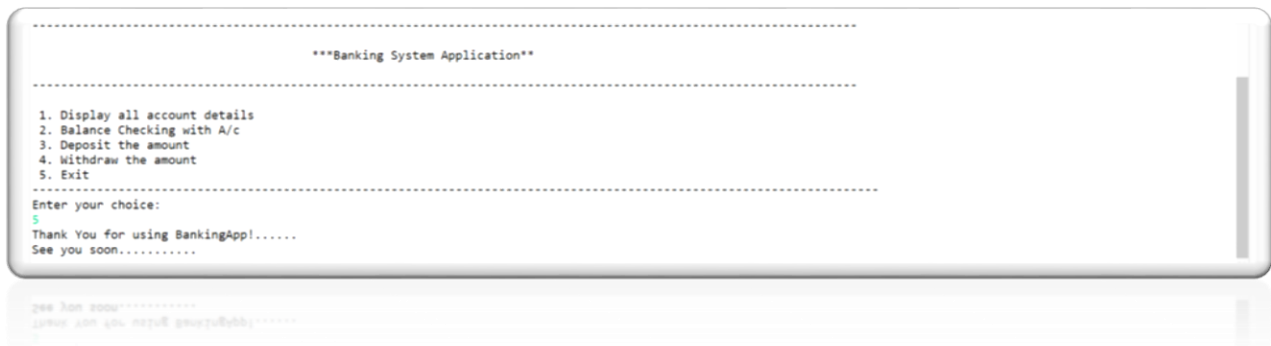
```
***Banking System Application**

1. Display all account details
2. Balance Checking with A/c
3. Deposit the amount
4. Withdraw the amount
5. Exit

Enter your choice:
4
Enter Account No : 111213141516
Name of account holder: sandeep
Address of account holder: Mumbai
Account no.: 111213141516
Account type: Saving
Balance: 10000
Enter the amount you want to withdraw:
3000
Balance after withdrawal: 7000
```

Steps 6.

Next option 5 choose: Exit



```
***Banking System Application**

1. Display all account details
2. Balance Checking with A/c
3. Deposit the amount
4. Withdraw the amount
5. Exit

Enter your choice:
5
Thank You for using BankingApp!.....
See you soon.....
```

Conclusion

Here we study about simple banking system in **java** application, We are preform some basic operation like Balance Enquiry, Amount deposit, Amount withdraw and exit from Account.