BANK PROGRAM

WEEK 6

INPUT:

```
import java.util.Scanner;
class account {
    String Name;
    int Acc_num;
     String Acc type;
}
class sav acc extends account {
     double balance;
     sav_acc(String N, int An, String At, double B) {
    Name = N;
     Acc num = An;
    Acc_type = At;
    balance = B;
     Scanner ss = new Scanner(System.in);
     void deposit(int val) {
```

```
balance += val;
     }
     void display_bal() {
     System.out.println("YOUR BALANCE IS: " + balance);
     void deposit interest() {
     double interest rate = 0.05;
     double time = 0;
     System.out.println("ENTER THE TIME PERIOD");
     time = ss.nextDouble();
     double amount;
     amount = balance * Math.pow((1 + interest rate), time);
     balance = amount;
     void withdraw(int val) {
    if (val > balance) {
         System.out.println("out of funds, withdraw lesser
amount");
     } else {
         balance -= val;
         System.out.println("withdrawal successful");
         System.out.println("new balance: " + balance);
     }
```

```
void check min() {
    double min bal = 2000.00;
    double penalty = 100.00;
    if (balance < min_bal) {</pre>
         System.out.println("BALANCE LESSER THAN
MINIMUM BALANCE, PENALTY IMPOSED");
         balance -= penalty;
    } else {
         System.out.println("BALANCE HIGHER THAN
MINIMUM BALANCE, NO PENALTY");
class cur acc extends account {
    double balance;
    cur acc(String N, int An, String At, Double B) {
    Name = N;
    Acc num = An;
    Acc_type = At;
    balance = B;
    void deposit(int val) {
```

```
balance += val;
    void display bal() {
    System.out.println("YOUR BALANCE IS: " + balance);
    void deposit_interest() {
    System.out.println("NO DEPOSIT PROVIDED FOR
CURRENT ACCOUNT");
    void withdraw() {
    System.out.println("NO WITHDRAWAL PROVIDED
FOR CURRENT ACCOUNT");
    }
    void Cheque withdrawal(int val) {
    balance -= val;
    System.out.println("withdrawal successful");
    System.out.println("new balance: " + balance);
    void check min() {
    double min bal = 2000.00;
    double penalty = 100.00;
    if (balance < min bal) {
```

```
System.out.println("BALANCE LESSER THAN
MINIMUM BALANCE, PENALTY IMPOSED");
         balance -= penalty;
    } else {
         System.out.println("BALANCE HIGHER THAN
MINIMUM BALANCE, NO PENALTY");
class Bank {
    public static void main(String args[]) {
    Scanner ss = new Scanner(System.in);
    System.out.println("Enter your name, account number,
aacount type(savings/current), balance");
    String Name = ss.nextLine();
    int Acc num = ss.nextInt();
    String Acc type = ss.next();
    double balance = ss.nextDouble();
    if (Acc type.equals("savings")) {
         sav acc a1 = new sav acc(Name, Acc num,
Acc type, balance);
         int choice = 0;
         while (choice != 6) {
         System.out.println(
```

```
"1.Deposit\n2.Display Balance\n3.Compute and
deposit interest\n4.withdraw\n5.Check for minimum
balance\n6.Exit");
          choice = ss.nextInt();
          switch (choice) {
               case (1):
               System.out.println("Enter the value to deposit");
               int val = ss.nextInt();
               a1.deposit(val);
               break;
               case (2):
               al.display bal();
               break;
               case (3):
               a1.deposit_interest();
               break;
               case (4):
               System.out.println("Enter the value to
withdraw");
               int withd = ss.nextInt();
               al.withdraw(withd);
               break;
               case (5):
               al.check min();
               break;
               case (6):
               System.out.println("Exited");
```

```
break;
               default:
               System.out.println("Enter a valid choice");
               break;
     } else {
          cur_acc a1 = new cur_acc(Name, Acc_num,
Acc type, balance);
          int choice = 0;
          while (choice != 7) {
          System.out.println(
               "1.Deposit\n2.Display balance\n3.Compute and
deposit interest\n4. Withdraw\n5. Cheque Withdrawal\n6. Check
for minimum balance\n7.Exit");
          choice = ss.nextInt();
          switch (choice) {
               case (1):
               System.out.println("Enter the value to deposit");
               int val = ss.nextInt();
               a1.deposit(val);
               break;
               case (2):
               al.display bal();
               break;
               case (3):
               al.deposit interest();
```

```
break;
               case (4):
               al.withdraw();
               break;
               case(5):
               System.out.println("Enter the value to
withdraw");
               int val1 = ss.nextInt();
               a1.Cheque_withdrawal(val1);
               case (6):
               al.check_min();
               break;
               case (7):
               System.out.println("Exited");
               break;
               default:
               System.out.println("Enter a valid choice");
               break;
```

OUTPUT:

SAVINGS ACCOUNT

```
Command Prompt
C:\Users\Admin\Documents\1BM21CS248>javac BAnk.java
C:\Users\Admin\Documents\1BM21CS248>java Bank
Enter your name, account number, aacount type(savings/current), balance
ZORO
123450000
savings
2000

    Deposit

Display Balance
Compute and deposit interest
4.withdraw
Check for minimum balance
6.Exit
Enter the value to deposit
500

    Deposit

2.Display Balance
3.Compute and deposit interest
4.withdraw
5.Check for minimum balance
6.Exit
YOUR BALANCE IS: 2500.0

    Deposit

Display Balance
Compute and deposit interest
4.withdraw
Check for minimum balance
6.Exit
ENTER THE TIME PERIOD
1.Deposit
2.Display Balance
Compute and deposit interest
4.withdraw
5.Check for minimum balance
6.Exit
YOUR BALANCE IS: 2756.25

    Deposit

2.Display Balance
3.Compute and deposit interest
4.withdraw
Check for minimum balance
6.Exit
Enter the value to withdraw
3000
out of funds, withdraw lesser amount

    Deposit

Display Balance
3.Compute and deposit interest
4.withdraw
Check for minimum balance
6.Exit
Enter the value to withdraw
500
withdrawal successful
```

```
Command Prompt
Enter the value to withdraw
500
withdrawal successful
new balance: 2256.25

    Deposit

2.Display Balance
Compute and deposit interest
4.withdraw
5.Check for minimum balance
6.Exit
BALANCE HIGHER THAN MINIMUM BALANCE, NO PENALTY

    Deposit

2.Display Balance
Compute and deposit interest
4.withdraw
5.Check for minimum balance
6.Exit
Enter the value to withdraw
500
withdrawal successful
new balance: 1756.25

    Deposit

2.Display Balance
3.Compute and deposit interest
4.withdraw
5.Check for minimum balance
6.Exit
BALANCE LESSER THAN MINIMUM BALANCE, PENALTY IMPOSED
1.Deposit
2.Display Balance
3.Compute and deposit interest
4.withdraw
5.Check for minimum balance
6.Exit
YOUR BALANCE IS: 1656.25

    Deposit

2.Display Balance
Compute and deposit interest
4.withdraw
5.Check for minimum balance
6.Exit
Exited
```

CURRENT ACCOUNT

```
Command Prompt
C:\Users\Admin\Desktop>cd C:\Users\Admin\Documents\1BM21CS248
C:\Users\Admin\Documents\1BM21CS248>javac Bank.java
C:\Users\Admin\Documents\1BM21CS248>java Bank
Enter your name, account number, aacount type(savings/current), balance
ITACHI
1230050000
current
2000

    Deposit

Display balance
3.Compute and deposit interest
4.Withdraw
Cheque Withdrawal
6.Check for minimum balance
7.Exit
Enter the value to deposit
500

    Deposit

Display balance
Compute and deposit interest
4.Withdraw
5.Cheque Withdrawal
6.Check for minimum balance
7.Exit
YOUR BALANCE IS: 2500.0

    Deposit

Display balance
3.Compute and deposit interest
4.Withdraw
Cheque Withdrawal
Check for minimum balance
7.Exit
NO DEPOSIT PROVIDED FOR CURRENT ACCOUNT

    Deposit

2.Display balance
Compute and deposit interest
4.Withdraw
Cheque Withdrawal
Check for minimum balance
7.Exit
NO WITHDRAWAL PROVIDED FOR CURRENT ACCOUNT

    Deposit

2.Display balance
3.Compute and deposit interest
4.Withdraw
Cheque Withdrawal
6.Check for minimum balance
7.Exit
```

```
Command Prompt
7.Exit
Enter the value to withdraw
3000
withdrawal successful
new balance: -500.0
BALANCE LESSER THAN MINIMUM BALANCE, PENALTY IMPOSED

    Deposit

Display balance
Compute and deposit interest
4.Withdraw
5.Cheque Withdrawal
6.Check for minimum balance
7.Exit
Enter the value to deposit
1.Deposit
Display balance
Compute and deposit interest
4.Withdraw
5.Cheque Withdrawal
6.Check for minimum balance
7.Exit
YOUR BALANCE IS: 2400.0
1.Deposit
Display balance
Compute and deposit interest
4.Withdraw
5.Cheque Withdrawal
6.Check for minimum balance
7.Exit
BALANCE HIGHER THAN MINIMUM BALANCE, NO PENALTY

    Deposit

2.Display balance
3.Compute and deposit interest
4.Withdraw
5.Cheque Withdrawal
6.Check for minimum balance
7.Exit
Exited
```