LAB 5

```
import java.util.Scanner;

class Account {
 String cName, accNum, accType;
public static final String ANSI_RED
public static final String ANSI_GREEN
public static final String ANSI_RESET
Scanner sc = new Scanner (System.in);
 Account (String name, String accNO, String accType) {
   this.cName = name;
   this.accNum = accNO;
   this.accType = accType;
  }
  Account () {};
  }
  class currentAcc extends Account {
  double balance = 5000, rate = 0.06;
  int time = 5;
  private boolean canWithdraw = false;
 CurrentAcc (String name, String accNO, String accType) {
super (name, accNo, accType);
System.out.println("New Customer: " + cName);
}
```

```
void getBalance(){
System.out.format("Your balance: %f\n", balance);

}

void deposit(double amount){
char choice;
System.out.println("Deposit. Account holder:"+
-cName+"Amount:"+amount);
System.out.println("Approve Deposit? (Y/S):");
choice=sc.next().charAt(0);
if(choice=='y'||choice=='Y'){
balance+=amount;
System.out.println(ANSI_GREEN+"Deposit
-approved. Updated balance:"+balance+ANSI_RESET);
}
}

void withdraw(double amount){
char choice;
if(this.can withdraw){
If(balance<amount){
System.out.println("Account balance is lower-
-than amount to be withdrawn");
return;
}
System.out.println("Approve"+cName+"s request for-
-withdraw1?(Y/N):");
```

```
choice = sc.next().charAt(0);
if (choice == 'Y' || choice == 'y') {
  balance-=amount
System.out.println(ANSI_GREEN + "withdrawl-
-Approved. update balance!" +balance+ANSI_RESET
  }
  }

void checkMinAmount() {
if (balance<3000){
  balance = -500
System.out.println(ANSI_RED+ "Balance under
minimum amount has to be maintained." +
ANSI_RESET);
  }
  }
  }

Public class Prog2 {
  public static void main(String[] args) {
  int c;
double temp;
String name, accNO, accType;
Scanner sc = new Scanner(System.in);
System.out.println("Enter Name:");
name = sc.nextLine();
```

```
System.out.println("Enter account number:");
accNO=sc.nextLine();
System.out.println("Enter Account type:");
accType=sc.nextLine();
if(accType.charAt(0)=='c'){
currentAcc a=new CurrentAcc(name,accNO,accType);
while(true){
System.out.println("1.Deposit money\n2.withdraw-
-money\n3.Display money\n4.Exit");
c=sc.nextInt();
switch(c){
case 1: System.out.println("Enter amount to be
                deposited:");
        temp=sc.nextDouble();
        a.checkMinAmount();
        break;
Case 2: system.out.println("Enter amount to
                be withdraw:");
        temp=sc.nextDouble();
        a.checkMinAmount();
        break;
```

```
case 3 : a.getBalance();
         break;

case 4: system.exit(0);
         break;

default:System.out.println("Enter the correct Option");

}
}
}
else if (accType.charAt(0) == 'S'){
  SavingsAcc a=new SavingAcc(name, accNo,
                             accType);

while(true){
System.out.println("1.Deposit money\n2.withdraw
-money\n 3.Display money\n4.Exit");
 c=sc.nextInt();
 switch(c){
case 1: System.out.println("Enter amount to be
                            deposited:");
        temp=sc.nextDouble();
        a.deposit(temp);
        a.calcInterest();
        a.checkMinAmount();
        break;
```

```
case 2: System.out.println("Enter the amount to
                        be withdrawn:");

temp = sc.nextDouble();
  a.withdraw(temp);
  a.calcInterest();
  a.checkMinamount();
  break;

case 3: a.getBalance();
      break;

case 4: System.exit(0);
      break;
}
default: System.out.println("Enter the correct
                        options");
}
}
}
else {
System.out.println("Enter validtype.. Exiting");
}
}
}
```