

Lab Program - 5

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

```
class Account
```

```
{  
    String name;  
    String accno;  
    char acctype;
```

```
    Scanner ss = new Scanner(System.in);
```

```
    Account()
```

```
{
```

```
    name = "";
```

```
    accno = "";
```

```
    acctype = '0';
```

```
}
```

```
    System.out.println("Enter ACCOUNT DETAILS");
```

```
    System.out.println("Enter the NAME :");
```

```
    name = ss.next();
```

```
    System.out.println("Enter Account Number:");
```

```
    accno = ss.next();
```

```
    System.out.println("Enter the Account Type
```

```
    (S = Savings or C = Current)");
```

```
    acctype = ss.next().charAt(0);
```

```
}
```

```
class NewAcc extends Account
```

```
{  
    double ci, deposit, withdraw, amt, balance;  
    int ch;
```

```
    double time, R = 0.05;
```

```
    Scanner ss = new Scanner(System.in);
```

```

void accept()
{
    System.out.println("Enter account Balance");
    balance = ss.nextDouble();
    do
    {
        System.out.println("1. Deposit Money");
        System.out.println("2. Withdraw Money");
        System.out.println("3. EXIT");
        ch = System.out.println("Enter your choice:");
        ch = ss.nextText();
        if (ch == 1)
            depositant();
        else if (ch == 2)
            withdrawant();
        else if (ch == 3)
            break;
        else
            System.out.println("Invalid Choice");
    }
    while (ch != 3);
    System.out.println("Enter the time (in years) for which interest has to be calculated:");
    time = ss.nextDouble();
    displaydet();
}

void depositant()
{
    System.out.println("Enter the amt you want to DEPOSIT");
    deposit = ss.nextDouble();
    balance += deposit;
}
    
```



```
void withdrawamt()
{
```

```
    System.out.println("Enter the amount  
    you want to WITHDRAW ");  
    withdraw = ss.nextDouble();  
    balance -= withdraw;
```

```
void displaydet()
{
```

```
    amt = balance * Math.pow((1 + r), time);  
    System.out.println("YOUR UPDATED BALANCE: "  
        + "%0.3f", amt);
```

```
class Cur-act extends Account
```

```
{
```

```
    double balance;  
    double deposit;  
    double withdraw;  
    double amt;  
    int ch;  
    double min-bill = 1000;  
    int penalty = 25;  
    Scanner ss = new Scanner(System.in);
```

```
void acceptch()
{
```

```
    System.out.println("Enter the account BALANCE:");  
    balance = ss.nextDouble();  
    do
```

```
        System.out.println("1. Deposit Money");  
        System.out.println("2. Withdraw Money");
```

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```

system.out.println("3. EXIT");
system.out.println("Enter your choice");
ch = ss.nextInt();
if (ch == 1)
    depositamt();
else if (ch == 2)
    withdrawamt();
else if (ch == 3)
    break;
else
    system.out.println("Invalid Choice!");
}
while (ch != 3);
displaydet();
}
}

void depositamt()
{
    system.out.println("Enter the amt you want to DEPOSIT: ");
    deposit = ss.nextDouble();
    balance += deposit;
}

void withdrawamt()
{
    system.out.println("Enter the amt you want to WITHDRAW: ");
    withdraw = ss.nextDouble();
    balance -= withdraw;
}

void displaydet()
{
    system.out.println("BALANCE")
    if (balance < min-bal)
    {

```



```

        system.out.println("Your balance is less  

        than the minimum balance required");  

        system.out.println("So, a penalty of Rs. "  

        + penalty + " has been imposed!");  

        balance -= penalty;  

    }  

    system.out.println("Your updated balance :  

    %0.3%f\n", balance);  

    system.out.println("Cheque Book facility is  

    provided");  

}

```

```

class Bank
{

```

```

    public static void main(String args[])
    {

```

```

        Account a = new Account();

```

```

        a.accept();

```

```

        if (a.actype == 'S')

```

```

        {
            sav-act s = new sav-act();

```

```

            s.acceptch();
        }

```

```

        else if (a.actype == 'C')

```

```

        {
            Curr-act c = new Curr-Act();

```

```

            c.acceptch();
        }

```

```

        else

```

```

        {
            system.out.println("Enter a valid  

            account type");
        }
    }
}

```