Week 5

```
import java.util.Scanner;
import java.lang.Math;
class Account{
       String name = new String();
       int acc_no;
       double balance;
       void setd(){
               Scanner S = new Scanner(System.in);
               System.out.println("Enter your name: ");
               name = S.nextLine();
               System.out.println("Enter Account number : ");
               acc no = S.nextInt();
               System.out.println("Enter balance: ");
               balance = S.nextDouble();
        }
       void display(){
               System.out.println("Name : " + name);
               System.out.println("Account number : " + acc_no);
               System.out.println("Balance : " + balance);
        }
       Account(){}
}
class Savings extends Account{
       Scanner S = new Scanner(System.in);
       Savings(){
               System.out.println("Facilities avilable are: ");
               System.out.println("1.Withdraawal \n 2.Compound Intrest \n 3.No Cheque");
               }
       void deposit(){
               int choice;
               double dep;
               double wd;
               System.out.println("Enter 1 to deposit:");
               choice = S.nextInt();
               if(choice == 1){
                      System.out.println("Enter the amount to deposit:");
                      dep = S.nextDouble();
                      balance += dep;
               }
               else
```

```
System.out.println("Invalid Input");
       void intrest()
               System.out.println("Enter rate of interest:");
               double r = S.nextDouble();
 r = r/100;
               System.out.println("Enter frequency of interest applied per time period:");
               int n = S.nextInt();
               System.out.println("Enter time periods:");
               int t = S.nextInt();
               double x = (1+(r/n));
               double compond_intrest = balance*Math.pow(x,n*t);
               System.out.println("Interest amount="+compond_intrest-balance+" \nBalance
amount without interest is"+balance);
 balance = compound_intrest;
               System.out.println("Available balance after updating is: "+balance);
       void withdraw(){
          double wd;
          int choice;
               System.out.println("Enter 1 to withdraw: ");
               choice = S.nextInt();
               if(choice == 1){
                      System.out.println("Enter the amount you want: ");
                       wd = S.nextDouble();
                       if(wd < balance){
                               balance = balance - wd;
                               System.out.println("Avilable balance is: " + balance);
                       }
                         System.out.println("Insufficient balance");
               }
               else
                   System.out.println("Invalid Input");
        }
}
class Current extends Account{
       Scanner S = new Scanner(System.in);
       Current()
       {
               System.out.println("Cheque Facility available ");
       void deposit()
               int choice;
```

```
double amount;
               System.out.println("Press 1 to deposit");
               choice = S.nextInt();
               if(choice==1)
               {
                      System.out.println("Enter amount to be deposited ");
                      amount=S.nextDouble();
                      balance += amount;
               }
               else
                      System.out.println("Invalid Input");
       }
       void withdraw()
               System.out.println("Press 1 to withdraw ammount");
               int choice=S.nextInt();
               if(choice==1)
               {
                      System.out.println("Enter the amount to be withdrawn");
                      double wd=S.nextDouble();
                      balance = balance - wd;
                      System.out.println("Available Balance:"+balance);
               }
               else
                      System.out.println("Invalid input");
               if(balance<1000)
                      System.out.println("You are running out of minimum balance \nAmount of rs
500 has been debited as service charge for having low balance");
                      balance = balance - 500;
                      System.out.println("Your Available Balance:"+balance);
               }
       }
}
class Lab5
{
       public static void main(String xx[])
{
               Scanner S = new Scanner(System.in);
               System.out.println("\nPress\n 1. for Savings account \n2.for Current account");
               choice = S.nextInt();
               switch(choice)
       {
               case 1:
```

```
Savings s1=new Savings();
                    s1.setd();
                    s1.display();
                    s1.deposit();
                    s1.intrest();
                    s1.withdraw();
                    break;
               case 2:
                    Current c1=new Current();
                    c1.setd();
                    c1.display();
                    c1.deposit();
                    c1.withdraw();
                     break;
               default : System.exit(0);
       }
}
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}

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