lab 5

- Develop a Java program to create a class Bank that maintains two kinds of account for its customers, one called Savings account and the other Current Account. The saving account provides compound interest and withdrawal facilities but no cheque book facility but no interest. Current Account holders should also maintain a minimum balance and if the balance falls below this level, a service charge is imposed.

- Create a class Account that stores Customer name, Account number and type of Account. From this derive the class Cur-Account and Sav-acct to make them more specific to their requirements. Include the necessary methods in order to achieve the following tasks:

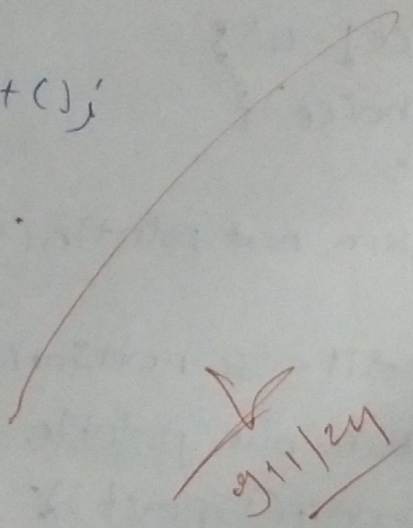
a) Accept deposit from customer and update the balance
b) Display the balance
c) Compute the deposit interest.
d) Permit withdraw and update the balance.

```
import java.util.Scanner;
class Bank{
  String name;
  int accNumber;
  int balance;

Bank (String name, int accNumber, int balance){
      this.name = name;
      this.accNumber= accNumber;
      this.balance = balance;

}}
```

```
class Savings extends
    Savings (string name, int accNumber, int balance){
      super (name, accNumber, balance);

    }
    int withdraw (int amount) {
        this.balance-= amount;
        return this.balance;
}
    void getBalance (){
      System.out.println ("Balance: "+ this.balance);
    }

int Deposit (int amount){
  this.balance+= amount;
    return this.balance;
  }
  void Display (){
     System.out.println ("name : "+ this.name+"\n");
     System.out.println ("Account number: "+this.acc
  System.out.println (" balance :"+ this.Balance+"\n");

}}

Public class BankMain{
  Public static void main(string args[]){
        Scanner sc = new Scanner(System.in);
        System.out.println ("Enter your name");
        String name = sc.nextLine();
        System.out.println (" Enter your Acc Number");
        int accNumber= sc.nextInt();
        int balance = 1000;
```

```
Savings savingsAccount = new Savings(name, AccNumber,
                                      balance);
int choice
int Deposit;
int withdraw;
System.out.println("------ Menu ------");
System.out.println("1. Deposit\n2. withdraw\n3.
 Display\n 4. Exit\n");
choice = sc.nextInt();
while (choice != 4){
  switch (choice){
      case 1:
          System.out.println("Enter the amount to
                                deposit\t");
          Deposit = sc.nextInt();
          System.out.println("Balance"+ SavingsAccount.
umber+"\n"); Deposit(Deposit));

    choice = sc.nextInt();
     break;

  ~~choice~~ case 2:
       System.out.println(" Enter the amount to
        withdraw \t");
        withdraw = sc.nextInt();
        System.out.println(" Balance" + savingsAccount.
        withdraw(withdraw));
       System.out.println("1. Deposit\n 2. withdraw\n
                          3. Display 4. Exit\n");

      choice = sc.nextInt();
       break;
```

```
Case 3:
    System.out.println("Account Details \n");
    SavingsAccount.Display();
    System.out.println(" 1. Display \n  2. Withdraw
    3. Display \n  4. Exit");

Case 4:
    System.out.println("\"compound Interest");
    savingsAccount.ComputerInterest();
    Sy~~stem~~
    Choice = sc.nextInt();
default:
    break;

}}}}
```



9/11/24