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Lab program-5

1BM19CS168
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```
import java.util.Scanner;
class Account{
String cus_name;
int acct_no;
int acct_type;
double balance;
double deposit;
void accept()
 { Scanner sc = new Scanner(System.in)
   System.out.println("Enter your name, account no, balance");
    cus_name = sc.nextLine();
     acct_no = sc.nextInt();
      balance = sc.nextDouble();
 }
void display()
    { System.out.println("Name:" + cus_name + "\n
        Account no.:" + acct_no + "\nBalance:" + balance);
    }
void deposit()
  { Scanner sc, new Scanner(System.in);
    System.out.println("Enter the amount to be
        deposited");
      deposit = sc.nextDouble();
      balance = balance + deposit;
  }
class Saving_acct extends Account{
  double interest; double rate = 10;
  double comp_interest()
  { System.out.println("Enter the time");
```

```
    double time = sc.nextDouble();
    double interest = balance * (Math.pow(1+rate/100,time));
    return interest;
}

void updatebalance()
{   balance = balance + comp_interest();
    System.out.println("Balance:" + balance);
    return;
}

void withdraw()
    { double amt;
      Scanner sc = new Scanner(System.in);
      amt = sc.nextDouble();
      if (amt > balance)
        { System.out.println("withdrawal is not
            possible");
        }
      else
        { System.out.println("amount + " has been
            withdrawn");
          balance = balance - amt;
        }
    }
double displaybalance()
    { return balance;
    }
}

class Current_acct extends Account {
    double amt, penalty = 50;
    double min_balance = 500.0;
```

```
void checkbalance() {
    if (balance < min_balance)
        { System.out.println("Penalty is imposed");
          balance = balance - penalty;
        }
    else
        return;
}
void withdraw() {
        amt = sc.nextDouble();
        if (amt > balance)
      System.out.println("withdrawal is not possible");
        else
            { balance = balance - amt;
              checkbalance();
            }
    }
class Bank {
    public static void main(String [] args) {
    int acct_type;
    Savings_actt s = new Savings_actt;
    Current_actt c = new Current_acct;
    System.out.println("choose the type of account
                        1. Savings\n 2. Current");
    if(acct_type == 1)
        { s.accept();
          s.display();
          s.deposit();
          s. withdraw updatebalance; s.withdrawl();
        }
    if (acct_type == 2)
        { c.accept(); c.display(); c.deposit();
          c.withdraw();
    }}
```