Date : _____

Program:

```
import java.util.Scanner;
class Account
{
    protected string name;
    protected string accno;
    protected double balance;
    public Account(string name, string accno, double balance)
    {
        this.name = name;
        this.accno = accno;
        this.balance = balance;
    }
    public void deposit(double amount)
    {
        if (amount>0)
        {
            balance += amount;
            System.out.println("Deposit successful.
                New Balance: " + balance);
        }
        else
        {
            System.out.println("Amount is not positive");
        }
    }
```

```
public void displayBalance()
{
  System.out.println(" Balance : " + balance);
}
public void withdraw(double amount)
{
  if(amount >0 && amount >= balance)
    {
    System.out.println(" Withdraw successful.
    New Balance : " + balance);
    }
  else
    {
    System.out.println(" Insufficient Balance");
    }
  }
}
Class SavAcc extends Account
{
  double
  ~~int~~ interest;
  public SavAcc(String name, String accno, double
        balance, double interest)
  {
    super(name, accno, balance);
    this.interest = interest;
  }
```

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```
public void ComputeandDeposit(int year)
{
  double interest = balance * Math.pow(1 + int /1000, year
                    - balance);
  balance + = interest;
  System.out.println("Interest deposited. New
                    Balance: " + balance);
}
public void withdraw(double amount)
 {
     super.withdraw(amount);
 }
}
Class CurAcc extends Account
 {
   private double minBalance;
   private double sesvicecharge;
   public CurAcc(String name, String accno, double
       balance, double minBalance, double sesvicecharge)
   {
     super(name, accno, balance)
     this.minBalance = minBalance;
     this.servicecharge = servicecharge;
   }
   public void withdraw(double amount)
   {
```

```
if (balance - amount < minBalance)
{
System.out.println (" Balance below minimum
  charge. Sevice charge : " + sevicecharge);
balance -= (amount + sevicecharge);
}
else
{
  balance - = amount;
  System.out.println(" withdraw successful.
New Balance : " + balance);
}
}
public class Book
{
public static void main ( String [] args)
{
Scanner sc = new Scanner (System.in);
System.out.println(" Enter account type (1 for
    savings, 2 for current)");
int accType = sc.nextInt();
sc.nextline();
System.out.println(" Enter customer name :"
  name = sc.nextLine();
System.out.println (" Enter Account number :"
  accNo = sc.nextLine();
```

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```
System.out.println("Enter the Balance : ");
balance = sc.nextDouble();
Account account;
if (acctype == 1)
{
System.out.println("Enter Interest Rate : ");
interest = sc.nextDouble();
account=new SavAcc(name, accno, balance, interest);
}
else
{
System.out.println("Enter minimum Balance : ");
minBalance = sc.nextDouble();
System.out.println("Enter service charge : ");
servicecharge = sc.nextDouble();
account=new CurAcc(name, accno, balance,
        minBalance, servicecharge);
}
int choice;
do
{
System.out.println("1.Deposit");
System.out.println("2.Display Balance");
System.out.println("3.withdraw Amount");
if (account instanceof SavAcc)
{
System.out.println("4.Compute and Deposit");
}
```

```
System.out.println("5.Exit");
System.out.println("Enter your choice:");
int choice = sc.nextInt();
switch(choice)
{
  case 1:
  System.out.println("Enter amount to deposit:");
  double depositamount = sc.nextDouble();
  account.deposit(depositamount);
  break;
  case 2:
  account.displayBalance();
  break;
  case 3:
  System.out.println("Enter amount to
                      withdsaw:");
  double withdsawAmount = sc.nextDouble();
  account.withdsaw(withdsawAmount);
  break;
  case 4:
  if(account instanceof SavAcc)
  {
  System.out.println("Enter no.of yeass:");
  int years = sc.nextInt();
  ((SavAcc) account.computeandDeposit
                      Interest(years);
  }
```

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```
else
  {
    System.out.println("Invalid");
  }
break;
case 5:
  System.out.println("Thank you for choosing us");
    break;
default: System.out.println("Invalid choice");
  }
}
while (choice!=5);
sc.close();
}
}
```

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```
C:\Users\Admin\Downloads>java Bank
Enter account type (1 for Savings, 2 for Current):
1
Enter customer name: DHARUNYA BALAVELAVAN
Enter account number: 1BM23CS090
Enter initial balance: 5000
Enter interest rate for savings account: 4

1. Deposit
2. Display Balance
3. Withdraw
4. Compute and Deposit Interest
5. Exit
Enter choice: 1
Enter amount to deposit: 350
Deposit successful. New balance: 5350.0

1. Deposit
2. Display Balance
3. Withdraw
4. Compute and Deposit Interest
5. Exit
Enter choice: 3
Enter amount to withdraw: 100
Withdrawal successful. New balance: 5250.0

1. Deposit
2. Display Balance
3. Withdraw
4. Compute and Deposit Interest
5. Exit
Enter choice: 4
Enter number of years to calculate interest: 3
Interest deposited. New balance: 5905.536

1. Deposit
2. Display Balance
3. Withdraw
4. Compute and Deposit Interest
5. Exit
Enter choice: 5
Thank you for banking with us.

C:\Users\Admin\Downloads>javac Bank
error: Class names, 'Bank', are only accepted if annotation processing is ex
1 error

C:\Users\Admin\Downloads>javac Bank.java

C:\Users\Admin\Downloads>java Bank
Enter account type (1 for Savings, 2 for Current):
2
Enter cust
```