



## Bank

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

```
class Amount
```

```
{
```

```
    String customerName;
```

```
    long amountNumber;
```

```
    String amountType;
```

```
    double balance;
```

```
    public Amount(String customerName, long  
amountNumber, String amountType, double balance)
```

```
{
```

```
    this.customerName = customerName;
```

```
    this.amountNumber = amountNumber;
```

```
    this.amountType = amountType;
```

```
    this.balance = balance;
```

```
}
```

```
    public void deposit(double amount)
```

```
{
```

```
        balance += amount;
```

```
        System.out.println("Deposit successful
```

```
Updated balance : " + balance);
```

```
}
```





Date : \_\_\_\_\_

```
public void display Balanc ()  
{  
    System.out.println ("Amount  
Number : " + amount Number)  
    System.out.println ("Custom Name :  
" + customName);  
    System.out.println ("Amount Type : " +  
    amountType);  
    System.out.println ("Balance : " + balance);  
}
```

Class Sav Act extend Amount

```
public Sav Act (String custom Name,  
long amount Number, double balance)  
{  
    super (customName, amount Number,  
    "Savings", balance);  
}
```

```
public void calc as computeInterest  
Interest (double rate)
```

```
double interest = balance * rate / 100;  
balance + = interest;  
System.out.println ("Interest compute  
& deposited. Updated balance : " + balance);
```



public void withdraw (double amount)

{

if (amount <= balance)

balance -= amount;

System.out.println ("Withdrawal successful.

Updated successful balance + balance);

}

else

{

System.out.println ("Insufficient funds

Withdrawal failed.");

}

}

}

Class CurdOut extends Amount

{

~~double~~ minimum Balance;

~~double~~ Service Charge;

public CurdOut (String customerName, long  
amount Number, double balance, double  
minimum Balance, double Service Charge)





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```
{  
    super (welcome Name, account Number, "current" balance  
        this, minimum Balance = minimum Balance,  
        this, service Charge = service Charge,  
        g.
```

```
    private void checkMinimumBalance()  
{
```

```
        if (balance < minimumBalance)  
{
```

```
            balance -= balance service Charge;  
            System.out.println ("Minimum balance  
not maintained. Service charge imposed.  
Updated balance: " + balance);  
        }  
    }  
}
```

```
}
```

```
public void withdraw (double amount)  
{
```

```
    if (amount <= balance)  
{
```

```
        balance -= amount;  
        System.out.println ("Withdrawal  
successful. Updated balance: " + balance);  
        checkMinimumBalance();  
    }  
}
```





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```
else  
{  
    System.out.println("Insufficient funds. Atm card  
    account failed");  
}
```

```
}  
}
```

```
public class Bank
```

```
{  
    public static void main (String[] args)
```

```
{
```

```
    Scanner s1 = new Scanner(System.in);  
    System.out.print("Enter Customer name for  
    savings account:");
```

```
    String SCN = s1.nextLine();  
    System.out.print("Enter initial balance for  
    savings account");
```

```
    String SAN = s1.nextLine();
```

```
    System.out.print("Enter initial balance for  
    savings account:");
```

```
    double SIR = s1.nextDouble();
```

```
    SavingsAcct SA = new SavingsAcct(SCN, SAN, SIR);
```





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```
System.out.print("Enter custom name for Current  
Account: ");
```

```
String CCN = S1.next();
```

```
System.out.print("Enter account number for  
Current Account: ");
```

```
String CCN = S1.next();
```

```
System.out.print("Enter initial balance for  
Current Account: ");
```

```
double CIB = S1.nextDouble();
```

```
System.out.print("Enter minimum balance  
for Current Account: ");
```

```
double MB = S1.nextDouble();
```

```
System.out.print("Enter service charge  
for Current Account: ");
```

```
double SC = S1.nextDouble();
```

```
Current A = new Current(CCN, AN,  
CIB, MB, SC);
```

```
System.out.print("Enter deposit amount for  
Savings Account: ");
```

```
double SD A = S1.nextDouble();
```

```
SA.deposit(SDA)
```

```
System.out.print("Enter interest rate  
for Savings Account: ");
```





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double SIR = SI. next Double();  
SA. compute And Deposit Interest (SIR);

System.out.print ("Enter withdrawal amount for  
Savings Account: ");  
double SWA = SI. next Double();  
SA. withdraw (SWA);

System.out.print ("Enter deposit amount for  
Current Account: ");  
double CDA = SI. next Double();  
CA. deposit (CDA);

System.out.print ("Enter withdrawal amount for  
Current Account: ");  
double CWA = SI. next Double();  
CA. withdraw (CWA);  
System.out.print ("In Fixed Balance: ");  
System.out.print ("Savings Account ");  
SA. display Balance();  
System.out.print ("In Current Account: ");  
CA. display Balance();

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```
import java.util.Scanner;

class Account
{
    String customerName;
    long accountNumber;
    String accountType;
    double balance;

    Account(String customerName, long accountNumber, String accountType, double balance)
    {
        this.customerName = customerName;
        this.accountNumber = accountNumber;
        this.accountType = accountType;
        this.balance = balance;
    }

    void deposit(double amount)
    {
        balance = balance + amount;
        System.out.println("Deposit of " + amount + " was successful. Balance: " + balance);
    }

    void displayBalance()
    {
        System.out.println("\nAccount Number: " + accountNumber + "\nCustomer Name: " +
            customerName + "\nAccount Type: " + accountType + "\nBalance: " + balance);
    }
}
```



```
class SavingsAccount extends Account
{

    SavingsAccount(String customerName, long accountNumber, double balance)
    {
        super(customerName, accountNumber,"Savings", balance);
    }

    void interest(double rate)
    {
        double interest = balance * rate / 100;
        balance = balance + interest;
        System.out.println("Interest computed and deposited. Updated balance: " + balance);
    }

    void withdraw(double amount)
    {

        if(amount<=balance)
        {
            balance = balance - amount;
            System.out.println("Withdrawal of " + amount + " successful. Updated balance: " + balance);
        }

        else
        {
            System.out.println("Insufficient funds. Withdrawal failed.");
        }
    }
}
```



```
}
```

```
}
```

```
}
```

```
class CurrentAccount extends Account
```

```
{
```

```
double minimumBalance;
```

```
double serviceCharge;
```

```
CurrentAccount(String customerName, long accountNumber, double balance, double  
minimumBalance, double serviceCharge)
```

```
{
```

```
super(customerName,accountNumber,"Current",balance);
```

```
this.minimumBalance=minimumBalance;
```

```
this.serviceCharge=serviceCharge;
```

```
}
```

```
void checkMinimumBalance()
```

```
{
```

```
if(balance<minimumBalance)
```

```
{
```

```
balance = balance - serviceCharge;
```

```
System.out.println("Minimum balance not maintained. Service charge imposed. Updated balance: "  
+ balance);
```

```
}
```

```
else
```

```
{
```



```
System.out.println("Minimum balance maintained. Service charge not imposed. Updated balance: "
+ balance);
}
}
```

```
void cheque(double amount)
{
```

```
    balance = balance - amount;
    System.out.println("Withdrawal of " + amount + " successful. Updated balance: " + balance);
}

}
```

```
public class Bank
{
    public static void main(String[] args)
    {
        Scanner s1 = new Scanner(System.in);

        System.out.println("Savings Account: ");
        System.out.print("Enter customer name: ");
        String name = s1.nextLine();
        System.out.print("Enter account number: ");
        long no = s1.nextLong();
        System.out.print("Enter initial balance: ");
        double balance = s1.nextDouble();
        SavingsAccount SA = new SavingsAccount(name, no, balance);
        System.out.print("\n");
    }
}
```



```
System.out.println("Current Account: ");

    System.out.print("Enter customer name: ");
    name = s1.next();
    System.out.print("Enter account number: ");
    no = s1.nextLong();
    System.out.print("Enter balance: ");
    balance = s1.nextDouble();
    System.out.print("Enter minimum balance: ");
    double minBalance = s1.nextDouble();
    System.out.print("Enter service charge: ");
    double charge = s1.nextDouble();

    CurrentAccount CA = new CurrentAccount(name, no, balance, minBalance, charge);
System.out.print("\n");
```

```
    System.out.print("Enter deposit amount for Savings Account: ");
    double SDA = s1.nextDouble();
    SA.deposit(SDA);
System.out.print("\n");
```

```
    System.out.print("Enter interest rate for Savings Account: ");
    double SIR = s1.nextDouble();
    SA.interest(SIR);
System.out.print("\n");
```

```
    System.out.print("Enter withdrawal amount for Savings Account: ");
    double SWA = s1.nextDouble();
    SA.withdraw(SWA);
System.out.print("\n");
```

```

System.out.print("Enter deposit amount for Current Account:");

double CDA $1.nextDouble()

CA.deposit (CDA);

System.out.print("\n");

System.out.print("Enter withdrawal amount for Current Account: ");

double CWA= s1.nextDouble():

CA.chèque(CWA);

System.out.print("\n");

System.out.println("\nFinal Balances:");

System.out.println("Savings Account:"

SA displayBalance():

System.out.print("\n");

System.out.println("InCurrent Account");

CA displayBalance();

}
}

```

## Deekshith B 1BM22CS082

Output:

Savings Account:

Enter customer name: Deekshith B

Enter account number: 1000

Enter initial balance: 50000

Current Account:

Enter customer name:Nandan

Enter account number: 2000

Enter balance 150000

Enter minimum balance: 20000

Enter service charge: 10



Current Account:

Enter customer name:Nandan

Enter account number: 2000

Enter balance 150000

Enter minimum balance: 20000

Enter service charge: 10

Enter deposit amount for Savings Account: 10000

Deposit of 10000.0 was successful. Balance: 500000

Enter interest rate for Savings Account: 5

Interest computed and deposited. Updated balance: 63000.0

Enter withdrawal amount for Accoun Savings 3000

Withdrawal of 2000.0 successful, Updated balance: 610000

Enter deposit amount for Current Account: 20000

Deposit of 20000.0 was successful Balance: 1700000

Enter withdrawal amount for Current Account: 50000

Withdrawal of 100000 successful. Updated balance: 120000 0

Final Balances:

Savings Account

Account Number: 1000

Customer Name: Deekshith B

Account Type: Savings Balance: 61000.

Current Account:

Account Number: 2000

Customer Name: Nandan

Account Type: Current

Balance: 120000.0

