

```
import java.util
```

## BANK ACCOUNT

```
class Account
```

```
{  
    private String name;  
    private double account-no;  
    private char account-type;  
    private double balance;  
    void getData(char ch)  
    {  
        Scanner rr = new Scanner(System.in);  
        System.out.print("Enter the name of the customer:");  
        name = rr.next();  
        rr.nextLine();  
        System.out.print("Enter the account number of  
            the customer:");  
        account-no = rr.nextDouble();  
        System.out.print("Enter the balance of the  
            customer:");  
        balance = rr.nextDouble();  
        account-type = ch;  
    }  
    void updateBalance(double n)  
    {  
        balance = balance + n;  
    }  
}
```

```
void updatebalance1(double n)
```

```
{  
    balance = balance - n;  
}
```

```
double getbalance()
```

```
{  
    return balance;  
}
```

```
void displaybalance()
```

```
{  
    System.out.print("The balance is : " + balance);  
}
```

```
}
```

```
class Saving-Account extends Account
```

```
{ private double interest-rate;
```

```
    Saving-Account()
```

```
{  
    Scanner nn = new Scanner(System.in);
```

```
    getdata('S');
```

```
    System.out.println("Enter the interest  
                        rate : ");
```

```
    interest-rate = nn.nextDouble();
```

```
}
```

```
void getdeposit()
```

```
{  
    Scanner n = new Scanner(System.in);  
    System.out.println("Enter the amount to  
        be deposited:");  
    double n = n.nextDouble();  
    updatebalance(n);  
}
```

```
void computeinterest()
```

```
{  
    double n = (getbalance() * interest-rate) / 100;  
    updatebalance(n);  
    System.out.println("The computed interest  
        is: " + n);  
    displaybalance();  
}
```

```
void withdrawl()
```

```
{  
    System.out.print("Enter the amount to be  
        withdrawn:");
```

```
    Scanner n = new Scanner(System.in);
```

```
    double n = n.nextDouble();
```

```
    while (n > getbalance())
```

```
{
```

```
    System.out.println("The amount withdrawn  
        is more than the balance  
        enter again:");
```

```
    n = n.nextDouble();
```

```
}
```



```

    updateBalance();
    displayBalance();
}
}

```

```

class Current_Account extends Account

```

```

{
    private double min_balance;
    private int cheque_book;

```

```

    Current_Account()
    {

```

```

        Scanner in = new Scanner(System.in);

```

```

        getData('C');

```

```

        System.out.println("Enter the minimum  
balance:");

```

```

        min_balance = in.nextDouble();

```

```

    }

```

```

    void getDeposit()
    {

```

```

        Scanner in = new Scanner(System.in);

```

```

        System.out.println("Enter the amount to  
be deposited:");

```

```

        double n = in.nextDouble();

```

```

        updateBalance(n);

```

```

    }

```

```

    void issueCheck()
    {

```

```

        {

```

```

            Scanner in = new Scanner(System.in);

```

```

            System.out.println("Enter the amount of the  
check:");

```

```

            double n = in.nextDouble();

```

```
if (n > (getbalance() - minbalance))
```

```
{  
    System.out.println("You have issued check  
        of more than the minimum  
        balance and you have been  
        charged the penalty of 100 rupees");  
    updatebalance(100);  
}
```

```
else
```

```
{
```

```
    updatebalance(n);
```

```
}
```

```
displaybalance();
```

```
}
```

```
void withdrawel()
```

```
{
```

```
    System.out.println("Enter the amount to be  
        withdraw:");
```

```
    Scanner n = new Scanner(System.in);
```

```
    double n = n.nextDouble();
```

```
    while (n > (getbalance() - minbalance))
```

```
{
```

```
    System.out.println("The amount withdrawn is  
        more than the balance enter again");
```

```
    n = n.nextDouble();
```

```
}
```

```
    updatebalance(n);
```

```
    displaybalance();
```

```
}
```

```
}
```

```
class AccountMain {
```

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

```
        Scanner input = new Scanner (System.in);
```

```
        char ch;
```

```
        System.out.println ("Enter the type of account you want (C/S).");
```

```
        ch = input.next().charAt(0);
```

```
        if (ch == 'S' || ch == 's')
```

```
        {
```

```
            SavingsAccount s = new SavingsAccount();
```

```
            int n = 1;
```

```
            while (n != 0)
```

```
            {
```

```
                System.out.println ("Enter 0 for exit :");
```

```
                System.out.println ("Enter 1 for deposit");
```

```
                System.out.println ("Enter 2 for balance enquiry");
```

```
                System.out.println ("Enter 3 for calculate interest");
```

```
                System.out.println ("Enter 4 for withdrawal");
```

```
                n = input.nextInt();
```

```
                if (n == 0)
```

```
                    break;
```

```
                else if (n == 1)
```

```
                    s.getDeposit();
```

```
                else if (n == 2)
```

```
                    s.displayBalance();
```

```
                else if (n == 3)
```

```
                    s.calculateInterest();
```

```
                else if (n == 4)
```

```
                    s.withdrawal();
```

```
            }
```



```

}
else
{
    Current-Account S=new Current-Account();
    int n=1;
    while (n!=0)
    {
        System.out.println("Enter 0 for exit:");
        System.out.println("Enter 1 for deposit:");
        System.out.println("Enter 2 for balance enquiry:");
        System.out.println("Enter 3 to apply for cheque:");
        System.out.println("Enter 4 for withdrawal:");
        n = input.nextInt();
        if (n==0)
            break;
        else if (n==1)
            S.setdeposit();
        else if (n==2)
            S.displaybalance();
        else if (n==3)
            S.issuecheck();
        else if (n==4)
            S.withdrawal();
    }
}
}
}

```