Create a class Account that stores customer name, account number and type of account.
From this
derive the classes Cur-acct 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 and deposit interest.
d) Permit withdrawal and update the balance.
Check for the minimum balance, impose penalty if necessary and update the balance

```java
import java.util.Scanner;
class account{
    Scanner sc=new Scanner(System.in);
    String name; int acct_no; int
    balance,deposit; // String type;

    void deposit()
    {
        System.out.println("Enter amount for
        deposit\n"); int amount=sc.nextInt();
        balance+=amount;
        System.out.println("deposite is successfull\n do you want to check your
        balance"); System.out.println("1.YES\n2.NO"); int choice=sc.nextInt();
        check_balance();

    }
    void details()
    {
        System.out.println("Name: "+name);
        System.out.println("account_no: "+acct_no);
        System.out.println("balance :"+balance);
    }
    void check_balance()
    {
        System.out.println("Balance is "+balance);
    }
}
class savings extends account
{
```

```java
    double intrest=0;
    double rate=0.3;
    savings(String n,int a,int d)
    {
        name=n;
        acct_no=a;
        deposit=d;
        balance=deposit;
    }
    void details()
    {
        System.out.println("Account_type: Savings");
        super.details();
    }
    void withdrawal()
    {
        System.out.println("Enter amount for
        withdrawal\n"); int amount=sc.nextInt();
        if(balance<amount)
        System.out.println("You can withdraw the amount less than "+balance);
        else
        {
            balance=balance-amount;
            System.out.println("withdrawal is successfull..!!!!!!! \nparty leda "+name);
            System.out.println("\nDo you want check your
            balance\n"); System.out.println("1.YES\n2.NO"); int
            choice=sc.nextInt(); if(choice==1) check_balance();
            return;
        }
    }
    void  get_intrest(int month)
    {
        month/=3;
        intrest=(balance*rate*month/4);
        System.out.println("Previous balance: "+balance+"\nIntrest: "+intrest+"\nCurrent balance:
"+(balance+intrest));
        balance+=intrest;
    }
}
class current extends account
{
    int cheque_no;
    current(String n,int a,int d)
    {
```

```java
        name=n;
        acct_no=a;
        deposit=d;
        balance=deposit;
    }
    void details()
    {
        System.out.println("Account_type: Current");
        super.details();
    }
    void withdrawal()
    {
        System.out.println("Do you have
        cheque");
        System.out.println("1.YES\n2.NO"); int
        choice1=sc.nextInt(); if(choice1==1)
        {
            System.out.println("enter check number");
            cheque_no=sc.nextInt();
        }
        System.out.println("Enter amount for
        withdrawal\n"); int amount=sc.nextInt();
        if(balance<amount)
        System.out.println("You can withdraw the amount less than "+balance);
        else
        {
            balance=balance-amount;
            System.out.println("withdrawal is successfull..!!!!!!! \nparty leda "+name);
            System.out.println("Do you want check your balance\n");
            System.out.println("1.YES\n2.NO")
            ; int choice=sc.nextInt();
            if(choice==1) check_balance();
            return;
        }
    }
}
class Main
{ public static void  main(String[] args)
    {
        Scanner sc=new
        Scanner(System.in); String name; int
        acct_no; int deposit; int choice;
        System.out.println("Enter your name\n");
        name=sc.nextLine();
```

```java
System.out.println("Type of account\n");
System.out.println("1.current\n2.Savings")
; choice=sc.nextInt(); if(choice==2)
{
    System.out.println("Enter amount for deposition and minimum amount 1000
    rupees\n"); int x=sc.nextInt(); if(x<1000){
        System.out.println("cant deposit less tahn 1000");
    } else {
    deposit=x;
    }
    System.out.println("Create account number \n");
    acct_no=sc.nextInt(); savings s=new
    savings(name,acct_no,deposit); while(true)
    {
        System.out.println("\nEnter your choice\n1.depost\n2.withdrawal\n3.Details of
account\n4.Intrest Calculate\n5.exit\n");
        int ch=sc.nextInt();
        if(ch==1)
        s.deposit();
        else if(ch==2)
        {
            s.withdrawal();
        }else if(ch==3)
        {
            s.details();
        }
        else if(ch==4)
        { int m;
            System.out.println("Enter duration for intrest calculate\n");
            m=sc.nextInt();
            s.get_intrest(m);
        }
        else if(ch==5)
         break;
        else
        {
            System.out.println("Invalid Choice..!!!!!\n");
        }
    }
}
else
{
     System.out.println("Enter amount for deposition\n");
    deposit=sc.nextInt();
```

```java
        System.out.println("Create account number \n");
        acct_no=sc.nextInt(); current c=new
        current(name,acct_no,deposit); while(true)
        {
            System.out.println("\nEnter your choice\n1.depost\n2.withdrawal\n3.Details
of account\n4.exit"); int ch=sc.nextInt(); if(ch==1)
            c.deposit();
            else if(ch==2)
            {
               c.withdrawal();
            }else if(ch==3)
            {
               c.details();
            }
            else if(ch==4)
             break;
            else
            {
               System.out.println("Invalid Choice..!!!!!\n");
            }
}
}
}
}
```

```
Account_type: Current
Name: sushanth
account_no: 22233
balance :214

Enter your choice
1.depost
2.withdrawal
3.Details of account
4.exit
4

C:\Users\Admin\Desktop>java Bank
Enter your name

sushanth
Type of account

1.current
2.Savings
1
Enter amount for deposition

122
Create account number

12

Enter your choice
1.depost
2.withdrawal
3.Details of account
4.exit
4
```

```
C:\Users\Admin\Desktop>java Bank
Enter your name

sushanth
Type of account

1.current
2.Savings
1
Enter amount for deposition

212
Create account number

22233

Enter your choice
1.depost
2.withdrawal
3.Details of account
4.exit
1
Enter amount for deposit

2
deposite is successfull
 do you want to check your balance
1.YES
2.NO
1
Balance is 214

Enter your choice
1.depost
2.withdrawal
3.Details of account
4.exit
3
```