WEEK-6

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

```
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
```

```
{
   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)
    {
       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();
        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();
        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
```