Customer Products:

Super class:

```
package Customers;
    public class customer details {
    customer_details(String product_Name, String product_Model, double
product_Price){
        this.product_Name=product_Name;
        this.product_Model=product_Model;
        this.product_Price=product_Price;
    private String customer_Name;
    private String product_Name;
    private String product_Model;
    private double product Price;
    public void set_Name(String name){
        customer_Name=name;
    public String getCustomer_Name(){
        if(customer_Name!=null){
            return "Hello "+customer_Name;
        return "Please set your name before getting name use 'set Name
method'";
    public String getProduct_Model(){
        return "Product model: "+product_Model;
    public String getProduct_Price(){
        return "Product price: "+product_Price+"/-";
    public String getProduct_Name(){
            return "product name: "+product_Name;
}
Child class (Main method):
package Customers;
public class product details {
    public static void main(String args[]){
        customer_details cd=new customer_details("Samsung","M31",17000);
        cd.set Name("Veera");
        System.out.println(cd.getCustomer Name());
        System.out.println(cd.getProduct Name());
        System.out.println(cd.getProduct Model());
        System.out.println(cd.getProduct Price());
                                                          } }
```

Output:

```
🔯 eclipse-workspace - Demo1/src/Customers/product_details.java - Eclipse IDE
<u>F</u>ile <u>E</u>dit <u>S</u>ource Refac<u>t</u>or <u>N</u>avigate Se<u>a</u>rch <u>P</u>roject <u>R</u>un <u>W</u>indow <u>H</u>elp
Proje... \times \Box \Box customer_details.java \Box product_details.java \times
  □ 🕏 🎖 🔝 🖇 📗 1 package Customers;
 > 📸 Demo
3 public class product_details {
  🗸 🕮 src
    > ∰ (default packa 4⊝
                           public static void main(String args[]){
                               customer_details cd=new customer_details("Samsung","M31",17000);
    > 🔠 account
                               cd.set_Name("Veera");
    >  customer_c
>  product_de
                               System.out.println(cd.getCustomer_Name());
                               System.out.println(cd.getProduct_Name());
    > 🖶 demo
                   9
                               System.out.println(cd.getProduct_Model());
    > # Enumpacl
                               System.out.println(cd.getProduct_Price());
    > 🖶 Mobile
    > 🔠 Student
                  11
  > IRE System Librar 12
  > Referenced Libra 13
 Bemo2
 > 📴 Servers
                                                                                                                      Problems @ Javadoc   □ Declaration  □ Console   □ Progress
                 <terminated> product_details [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Dec 26, 2021, 4:33:57 PM – 4:33:58 PM)
                 product name: Samsung
                 Product model: M31
                 Product price: 17000.0/-
                                                                                                                            Activate Windows
```

Mobile:

```
Super class:
package Mobile;
public class mobile {
    mobile(){System.out.println("From Mobile... ");}
    public void call() {System.out.println("u can call from mobile... ");}
    public void games() {System.out.println("U can play small games..");}
    public void sms() {System.out.println("U can send and recevice
meassages...");}
}
Child interface:
    package Mobile;
        public interface Music_player {
            void select_song();
            void next_song();
            void previous_song();
            void forward_song();
    }
```

```
Child interface:
    package Mobile;
            public interface whatssapp {
                void send_Meassage();
                void recieve_meassage();
                void status();
                void voice_call();
                void video_call();
    }
Child class (Main class):
package Mobile;
public class Smart phone extends mobile implements Music player, whatssapp {
    public void select_song() {
        System.out.println("Select song to play..");
    public void next_song() {
        System.out.println("click here to play next song...");
    public void previous_song() {System.out.println("Click here to previous
song...");}
    public void forward_song() {System.out.println("click to forward
song...");}
    public void send_Meassage() {System.out.println("Send meassage from
whatssapp");}
    public void recieve_meassage() {System.out.println("Recieve meassage from
whatsapp");}
    public void status() {System.out.println("we keep status and we see others
status also");}
    public void voice_call() {System.out.println("We can call any one who r in
our contacts..");}
    public void video_call() {System.out.println("We can do video call also in
whatsapp...");}
    public static void main(String[] args) {
        Smart_phone sp=new Smart_phone();
        sp.call();  // this method from mobile class
        sp.select_song(); // from music player interface.
        sp.video_call(); // from whatsapp interface.
    }
}
```

Output:

```
eclipse-workspace - Demo1/src/Mobile/Smart_phone.java - Eclipse IDE
<u>F</u>ile <u>E</u>dit <u>S</u>ource Refac<u>t</u>or <u>N</u>avigate Se<u>a</u>rch <u>P</u>roject <u>R</u>un <u>W</u>indow <u>H</u>elp
| 🗂 ㅜ 🔡 🔞 : 🖳 : 🖎 : 🐿 🥩 + : 약 🥒 :> 🕪 📵 🗊 대 : ‡> ㅜ 🔾 ㅜ 📞 ㅜ : ७ 😥 🛷 ㅜ : 🖆 ㅜ 집 ㅜ 박 다양 🗘 ㅜ 다 ㅜ | 🗂
🔓 Proj... 🗴 🗀 📘 📝 mobile.java 📝 Music_player.java 📝 whatssapp.java 📝 Smart_phone.j 🖺 Problems @ Javadoc 😥 Declaration 💂 Console 🗴 🔫 Progress
                    1 package Mobile;
 > 👺 Demo
                                                                             <terminated> Smart_phone [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Dec 26, 2021, 4:57:59 PM - 4:58:00 PM)
3 public class Smart_phone extends mobile impl From Mobile...
  u can call from mobile...
    > 🔠 (default pack
                                                                             Select song to play...
                            public void select_song() {
                                                                                                                                                                  =6
    > 🔠 account
                                System.out.println("Select song to p We can do video call also in whatsapp...
    > # Customers
    > 🌐 demo
    > 🌐 Enumpacl
                           public void next_song() {
    🗸 🌐 Mobile
                                System.out.println("click here to pl
      > 🚺 mobile.jav
      > 🗗 Music_pla 10
      > 🚺 Smart_phc 🛆 11
                            public void previous_song() {System.out.
      > 🗗 whatssapp 📥 12
                            public void forward_song() {System.out.p
    > 🔠 Student
  > N JRE System Libra
                            public void send Meassage() {System.out.
  > 🐴 Referenced Libra 🖴 14
                            public void recieve_meassage() {System.o
                 △15
 > 👑 Demo2
                            public void status() {System.out.println
 > 📂 Servers
                            public void voice_call() {System.out.pri
                 416
                            public void video_call() {System.out.println("We can do video call also in whatsapp...");}
                 △17
                  18⊜
                            public static void main(String[] args) {
                   19
                                Smart phone sp=new Smart phone();
                   20
                   21
                                                   // this method from mobile class
                                sp.call();
                   22
                                 sp.select_song(); // from music player interface.
                   23
                                sp.video_call(); // from whatsapp interface.
                   24
                   25
                   26
                   27 }
                                                                                                                                 Activate Windows
                   28
                                                                                                                                 Go to Settings to activate Windows.
                                                                                                                                                 4n 🔟 🞓 🎢 🔞 💡
```

Account:

```
Account class (super class):
```

```
package account;
public class Account {
public void savings Account Details() throws Exception{
    System.out.print("Loading");
    for(int i=0;i<=6;i++) {Thread.sleep(300);System.err.print(".");}</pre>
    System.out.println();
    System.out.println("Account Number: 2872428282382");
    Thread.sleep(1000);
    System.out.println("Ifsc Code: SBI10009");
    Thread.sleep(1000);
    System.out.println("Account Holder Name: veera");
    Thread.sleep(1000);
    System.out.println("Account Type: Savings Account");
    Thread.sleep(1000);
    System.out.println();
    System.out.println("******* Thanks Visit Again **********);
public void loan_Account_Details() throws Exception{
    System.out.print("Loading");
```

```
for(int i=0;i<=6;i++) {Thread.sleep(300);System.err.print(".");}</pre>
        System.out.println();
        System.out.println("Account Number: 8997799821");
        Thread.sleep(1000);
        System.out.println("Ifsc Code: ICICI10009");
        Thread.sleep(1000);
        System.out.println("Account Holder Name: suresh");
        Thread.sleep(1000);
        System.out.println("Account Type: loan Account");
        Thread.sleep(1000);
        System.out.println();
        System.out.println("******** Thanks Visit Again **********");
    }
}
Loan class (child class / main class):
        package account;
import java.util.Scanner;
public class Loan extends Account {
    public void loan Details() throws Exception{
        System.out.print("Loading");
        for(int i=0;i<=6;i++) {Thread.sleep(300);System.err.print(".");}</pre>
        System.out.println();
        System.out.println("Account Type: loan Account...");
        Thread.sleep(1000);
        System.out.println("Loan amount: 2000000/-");
        Thread.sleep(1000);
        System.out.println("Monthly Emi: 20000");
        Thread.sleep(1000);
        System.out.println("Intrest amount: 10000/-");
        Thread.sleep(1000);
        System.out.println();
        System.out.println("******** Thanks Visit Again *********");
    public static void main(String[] args) throws Exception {
        Loan l=new Loan();
        System.out.println("you are in loan account details...");
        Thread.sleep(3000);
        Scanner sc=new Scanner(System.in);
        System.out.println("Please Select Account detals for 'Account'"+"\n"+"
For loan details enter 'loan'");
        String input=sc.nextLine();
        if(input.equalsIgnoreCase("account")) {
            1.loan Account Details();
        else if(input.equalsIgnoreCase("loan")) {
            1.loan Details();
        else {
```

```
System.err.println("Please enter correct input check again....");
}
}
Output:
```

```
🎡 eclipse-workspace - Demo1/src/account/Savings.java - Eclipse IDE
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                                                                                                         Problems @ Javadoc 🖳 Declaration 📃 Console 🗶 🔫 Progress
🖺 Proj... 🗡 🗀 🔝 Loan.java 🔃 Account.java 💹 Savings.java 🗶
  日冬7 3 8
                                                                                                                                                                            1 package account;
                                                                                                        <terminated> Savings [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Dec 26, 2021, 5:10:09 PM – 5:10:24 PM)
> 📸 Demo
you are in saving account details...
                           3 import java.util.Scanner;
                                                                                                        Please Select Account detals for 'Account'
                                                                                                                                                                                                                              ▣
      > 🚠 (default pack
                                                                                                        Card and other details enter 'card'
                           5 public class Savings extends Account {
                                                                                                                                                                                                                              =6

√ A account

                                      public void saving_Account() throws Exce Loading.....
        > 🕖 Loan.java
        > 🕡 Savings.jav
                                                                                                         .Account Number: 2872428282382
                                            System.out.print("Loading");
     > # Customers
                                            for(int i=0;i<=6;i++) {Thread.sleep( Ifsc Code: SBI10009</pre>
     > 🖶 demo
                                                                                                         Account Holder Name: veera
     > # Enumpacl
                                            System.out.println();
                                            System.out.println("Account Type: Sa Account Type: Savings Account
     > H Mobile
                          11
     > 🔠 Student
                                            Thread.sleep(1000);
   > 🔺 JRE System Libra
                                            13
   > 🛋 Referenced Libra
                                            Thread.sleep(1000);
  🎏 Demo2
 > 📂 Servers
                          15
                                            System.out.println("debit card withd
                          16
                                            Thread.sleep(1000);
                                            System.out.println("credit card money: 20000/day , CCPoints:150 ");
                          17
                                            Thread.sleep(1000);
                          19
                                            System.out.println();
                                            System.out.println("******** Thanks Visit Again *********);
                          20
                          21
                          22
                          23⊜
                                      public static void main(String[] args)throws Exception {
                          24
                                            Savings s=new Savings();
                                            System.out.println("you are in saving account details...");
                         25
                          26
                                            Thread.sleep(3000);
                        №27
                                            Scanner sc=new Scanner(System.in);
                          28
                                            System.out.println("Please Select Account detals for 'Account"+"\n"+"Card and otherwater and otherwater 'card
```

```
Savings account (child class / main class):
        package account;
import java.util.Scanner;
public class Savings extends Account {
    public void saving_Account() throws Exception{
        System.out.print("Loading");
        for(int i=0;i<=6;i++) {Thread.sleep(300);System.err.print(".");}</pre>
        System.out.println();
        System.out.println("Account Type: Savings Account");
        Thread.sleep(1000);
        System.out.println("debit card details: 9992/8292/8299 , *** ");
        Thread.sleep(1000);
        System.out.println("debit card withdraw: 10000/day");
        Thread.sleep(1000);
        System.out.println("credit card money: 20000/day , CCPoints:150 ");
        Thread.sleep(1000);
        System.out.println();
```

```
System.out.println("******* Thanks Visit Again *********");
   public static void main(String[] args)throws Exception {
        Savings s=new Savings();
        System.out.println("you are in saving account details...");
        Thread.sleep(3000);
        Scanner sc=new Scanner(System.in);
        System.out.println("Please Select Account detals for
'Account'"+"\n"+"Card and other details enter 'card'");
        String input=sc.nextLine();
        if(input.equalsIgnoreCase("account")) {
            s.savings Account Details();
        else if(input.equalsIgnoreCase("card")) {
            s.saving_Account();
        else {
            System.err.println("Please enter correct input check again....");
        }
    }
}
```

Output:

```
🥘 eclipse-workspace - Demo1/src/account/Loan.java - Eclipse IDE
<u>F</u>ile <u>E</u>dit <u>S</u>ource Refac<u>t</u>or <u>N</u>avigate Se<u>a</u>rch <u>P</u>roject <u>R</u>un <u>W</u>indow <u>H</u>elp
Proj... × □ □ 🔝 Loan.java × 🖸 Account.java
                                                                  Problems @ Javadoc 🚇 Declaration 📮 Console 🗶 🔫 Progress
                                                                                                            1 package account;
> 👺 Demo
                                                                  <terminated> Loan [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Dec 26, 2021, 5:11:29 PM – 5:11:41 PM)
                                                                  you are in loan account details...
                 3 import java.util.Scanner;
                                                                  Please Select Account detals for 'Account'
   > 🛺 (default pack
                                                                  For loan details enter 'loan'
                 5 public class Loan extends Account {

✓ A account

                        public void loan_Details() throws Except Loading......
     > 🕖 Loan.java
     > 🕡 Savings.jav
                                                                  Account Type: loan Account...
                           System.out.print("Loading");
   > H Customers
                           for(int i=0;i<=6;i++) {Thread.sleep( Loan amount: 2000000/-</pre>
   > demo
                                                                  Monthly Emi: 20000
                           System.out.println();
   > # Enumpacl
                           System.out.println("Account Type: 10 Intrest amount: 10000/-
   > 🌐 Mobile
   > 🔠 Student
                           Thread.sleep(1000);
                           > 🗻 JRE System Libra
                13
  > 🛋 Referenced Libra
                           Thread.sleep(1000);
 Pi Demo2
 Servers
                            System.out.println("Monthly Emi: 200
                           Thread.sleep(1000);
                17
                           System.out.println("Intrest amount: 10000/-");
                           Thread.sleep(1000);
                19
                            System.out.println();
                           System.out.println("********* Thanks Visit Again **********);
                20
                21
                22
                        public static void main(String[] args) throws Exception {
                23⊜
                24
                           Loan l=new Loan();
                           System.out.println("you are in loan account details...");
                25
                            Thread.sleep(3000);
                26
                           Scanner sc=new Scanner(System.in);
               №27
                           System.out.println("Please Select Account detals for 'Account'"+"\n"+" For loan details \enterowioan'");
                28
                ാറ
                                                                                                               Go to Settings to activate Windows.
```

Student details:

```
Student details (super class):
package Student;
import java.util.Scanner;
public class Student details {
    private String id;
    private String name;
    private int total marks=100;
    private int sub1 marks;
    private int sub2 marks;
    private int sub3 marks;
    private String sub1;
    private String sub2;
    private String sub3;
    Student details(String id, String name, int marks, int marks1, int marks2){
        this.id=id;
        this.name=name;
        sub1 marks=marks;
        sub2 marks=marks1;
        sub3 marks=marks2;
    }
    public String get_Details(){
        if(sub1 !=null && sub2 !=null && sub3 !=null){
            int total=sub1 marks+sub2 marks+sub3 marks;
            return "Student Id: "+id+" Student Name: "+name+"\n"+"subject 1:
"+sub1+" Marks"+sub1 marks+"\n"+
                    "subject 2: "+sub2+" Marks"+sub2_marks+"\n"+"subject 3:
"+sub3+" Marks"+sub3_marks+"\n"+"Total Marks: "+total;
        else if(sub1 !=null && sub2 !=null){
            int total1=sub1 marks+sub2 marks;
            return "Student Id: "+id+" Student Name: "+name+"\n"+"subject 1:
"+sub1+" Marks"+sub1 marks+"\n"+
                    "subject 2: "+sub2+" Marks"+sub2_marks+"\n"+"Total Marks:
"+total1;
        return "Please select 3 or 2 subjects";
    }
    public void set_subjects(String ...sub){
       if(sub.length==3){
           sub1=sub[0];
           sub2=sub[1];
           sub3=sub[2];
       }
```

```
else if(sub.length==2)
       {
           sub1=sub[0];
           sub2=sub[1];
       }
       else{
           System.out.println("please select 3 or 2 subjects...");
       }
    }
    public String get subjects() {
        if (sub1 != null && sub2 != null && sub3 != null) {
            return "Student id: " + id + " student Name: " + name + "\n" +
"Subject 1: " + sub1 + "\n" + "Subject 2: " + sub2 + "\n"
                    + "Subject 3: " + sub3;
        } else if (sub1 != null && sub2 != null) {
            return "Student id: " + id + " student Name: " + name + "\n" +
"Subject 1: " + sub1 + "\n" + "Subject 2: " + sub2;
        return "Please select atleast 2 or 3 subjects...";
    }
}
Results (child class / main class):
        package Student;
import java.util.Scanner;
public class Results {
    public static void main(String args[]){
        Student details sd[]= new Student details[4];
         sd[0]=new Student_details("1","veera",60,50,65);
         sd[1]=new Student_details("2", "soujanya", 70,65,60);
         sd[2]=new Student_details("3","sony",75,80,46);
         sd[3]=new Student_details("4","rafi",73,75,80);
         sd[0].set_subjects("JAVA","web","python");
         sd[1].set_subjects("JAVA","web");
         sd[2].set_subjects("web","python");
         sd[3].set_subjects("JAVA","python");
        Scanner sc=new Scanner(System.in);
        System.out.println("Please enter u r password");
        int valid=sc.nextInt();
        if(valid==1234){
            System.out.println("What u want to see subjects and marks or total
details for subjects please " +"\n"+
                    "Enter 'sub' total details please enter 'total'");
            Scanner sc1=new Scanner(System.in);
            String enter=sc1.nextLine();
```

```
if(enter.equalsIgnoreCase("total")){
                System.out.println("Enter id to find details:");
                int id=sc1.nextInt();
                try{
                    System.out.println(sd[id-1].get_Details());
                }catch(Exception e){
                    System.err.println("Please enter correct student id");
            else if(enter.equalsIgnoreCase("sub")){
                System.out.println("Enter id to find subjects:");
                int id=sc1.nextInt();
                try{
                    System.out.println(sd[id-1].get_subjects());
                }catch(Exception e){
                    System.err.println("Please enter correct student id");
            }
            else{
                System.out.println("please select correct input...");
        else{
            System.out.println("Wrong Password please enter correct
password...");
}
```

Output 1 (subjects):

```
🎑 eclipse-workspace - Demo1/src/Student/Results.java - Eclipse IDE
<u>File Edit Source Refactor Navigate Search Project Run Window Help</u>
Proj... X □ □ D Student_details.java D Results.java X
                                                                                                              🖹 🕏 🎖 📗 1 package Student;
                                                                   <terminated> Results [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Dec 26, 2021, 5:15:47 PM - 5:15:56 PM)
> 📸 Demo
Please enter u r password
                 3 import java.util.Scanner;
    > 🚠 (default pack
                                                                  What u want to see subjects and marks or total details for subjects
                 5 public class Results {
   > 🚠 account
                       > # Customers
   > 🌐 demo
                            Student_details sd[]= new Student_de Enter id to find subjects:
   > H Enumpacl
                             sd[0]=new Student_details("1","veer 1
                             sd[1]=new Student_details("2","souj
sd[2]=new Student_details("3","sony
sd[3]=new Student_details("4","rafi
Subject 1: JAVA
Subject 2: web
     > 🕖 Results.jav
     > 🕖 Student_d
  > M JRE System Libra
   Referenced Libra
                                                                   Subject 3: python
                13
 Pi Demo2
                             sd[0].set_subjects("JAVA","web","py
> B Servers
                             sd[1].set_subjects("JAVA","web");
sd[2].set_subjects("web","python");
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                             sd[3].set_subjects("JAVA","python");
                18
                19
                20
                            Scanner sc=new Scanner(System.in);
                            System.out.println("Please enter u r password");
                21
                            int valid=sc.nextInt();
                22
                23
                            if(valid==1234){
                24
                                System.out.println("What u want to see subjects and marks or total details for subjects please " +"
                25
                                         "Enter 'sub' total details please enter 'total'");
               26
                                Scanner sc1=new Scanner(System.in);
                27
                                String enter=sc1.nextLine();
                28
                                if(enter.equalsIgnoreCase("total")){
                                                                                                                Activate Windows
                                    Suctom aut naintla/"Enton id to
                                                                                                                              90 m = 7 0 0
```

Output 2 (All details):

```
🧱 eclipse-workspace - Demo1/src/Student/Results.java - Eclipse IDE
\underline{\text{File}} \quad \underline{\text{E}} \text{dit} \quad \underline{\text{S}} \text{ource} \quad \text{Refactor} \quad \underline{\text{N}} \text{avigate} \quad \text{Se}\underline{\text{arch}} \quad \underline{\text{P}} \text{roject} \quad \underline{\text{R}} \text{un} \quad \underline{\text{W}} \text{indow} \quad \underline{\text{H}} \text{elp}
Proj... X 🗀 🗋 🔝 Student_details.java 🔝 Results.java X
                                                                                    Problems @ Javadoc ᡚ Declaration ☐ Console X ☐ Progress
                    1 package Student;
                                                                                                                                         <terminated> Results [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Dec 26, 2021, 5:17:34 PM – 5:17:41 PM)
> 💒 Demo
                     2
Please enter u r password
                     3 import java.util.Scanner;
                                                                                                                                                                                 🗸 🕮 src
                                                                                                                                                                                 ▣
    > 🔠 (default pack
                                                                                   What u want to see subjects and marks or total details for subjects
                     5 public class Results {
    > 🔠 account
                              public static void main(String args[]){    Enter 'sub' total details please enter 'total'
    > # Customers
    > 🌐 demo
                                   Student_details sd[] = new Student_de Enter id to find details:
    > # Enumpacl
                     8
    > 🖶 Mobile
                                    sd(0)=new Student_details("1","veer
sd[1]=new Student_details("2","souj
sd[2]=new Student_details("3","sony
sd[3]=new Student_details("4","rafi
subject 1: JAVA Marks60
subject 2: web Marks50
subject 3: nython Marks65
                     9
    ∨ 🔠 Student
      > 🕖 Results.jav
                    10
      > 🕖 Student_d
  > 🛋 JRE System Libra
                    12
  > 🛋 Referenced Libra
                                                                                   subject 3: python Marks65
                    13
> 👺 Demo2
                                     sd[0].set_subjects("JAVA","web","py Total Marks: 175
                    14
> 📂 Servers
                    15
                                     sd[1].set_subjects("JAVA","web");
                                     sd[2].set_subjects("web","python");
                    16
                    17
                                     sd[3].set_subjects("JAVA","python")
                    18
                    19
                                   Scanner sc=new Scanner(System.in);
                    20
                    21
                                   System.out.println("Please enter u r password");
                                   int valid=sc.nextInt();
                    22
                    23
                                   if(valid==1234){
                                        System.out.println("What u want to see subjects and marks or total details for subjects please " +"
                    24
                                                   "Enter 'sub' total details please enter 'total'");
                    25
                                        Scanner sc1=new Scanner(System.in);
                   26
                                        String enter=sc1.nextLine();
                    27
                                        if(enter.equalsIgnoreCase("total")){
                                                                                                                                             Activate Windows
                    28
```