

SQL (SQLite3)

Please use spaces to indent your code. Use 4 spaces per indentation level

```
117 |   I  
118 ... select name from employees  
119 ... order by name  
120 -  
121 -
```

Please use spaces to indent your code. Use 4 spaces per indentation level

```
117 select DISTINCT city from my_contacts  
118   ... I join address where my_contacts.zip_code=address.zip_code  
119  
120
```

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(
    id int primary key,
    cname varchar(50) not null,
    rating int ,
    odate varchar(50)not null,
    city varchar(50) not null,
    amt int,
    comm int
);
INSERT INTO cust VALUES (1,"helllo",100,"04-oct-94","paris",10000,0.09);
INSERT INTO cust VALUES (2,"Gelcome",200,"03-nov-93","London",1000,0.10);
INSERT INTO cust VALUES (3,"helllo",100,"02-oct-93","hyd",200,0.11);
SELECT * FROM cust where amt = (select max(amt) from cust) ;
```

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Output

1|helllo|100|04-oct-94|paris|10000|0.09



SQL Query

```
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(  
    id int primary key,  
    cname varchar(50) not null,  
    rating int ,  
    odate varchar(50)not null,  
    city varchar(50) not null,  
    amt int,  
    comm int  
);  
INSERT INTO cust VALUES (1,"helllo",100,"04-oct-94","paris",10000,0.09);  
INSERT INTO cust VALUES (2,"welcome",200,"03-nov-93","London",1000,0.10);  
INSERT INTO cust VALUES (3,"helllo",100,"02-oct-93","hyd",200,0.11);  
SELECT count(distinct city) FROM cust ;
```

Run

Clear



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Output

3

Status C



ASUS

```
3  
4      id int primary key,  
5      cname varchar(50) not null,  
6      rating int ,  
7      odate varchar(50)not null,  
8      city varchar(50) not null,  
9      amt int,  
10     comm int  
11    );  
12    INSERT INTO cust VALUES (1,"helllo",100,"04-oct-94","null",100);  
13    INSERT INTO cust VALUES (2,"welcome",200,"03-nov-93","London",200);  
14    INSERT INTO cust VALUES (3,"helllo",100,"02-oct-93","London",200);  
15    SELECT count(*) FROM cust where odate='04-oct-94' ;  
16
```

Run

Clear

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Output

```
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16  
  
    id int primary key,  
    cname varchar(50) not null,  
    rating int ,  
    odate varchar(50)not null,  
    city varchar(50) not null,  
    amt int,  
    comm int  
);  
INSERT INTO cust VALUES (1,"helllo",100,"04-oct-94","null",10000,0.09);  
INSERT INTO cust VALUES (2,"welcome",200,"03-nov-93","London",1000,0.10);  
INSERT INTO cust VALUES (3,"helllo",100,"02-oct-93","London",200,0.11);  
SELECT count(distinct cname) FROM cust ;
```

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Status

Output

2



```
4      id int primary key,  
5      cname varchar(50) not null,  
6      rating int ,  
7      odate varchar(50)not null,  
8      city varchar(50) not null,  
9      amt int,  
10     comm int  
11 );  
12 INSERT INTO cust VALUES (1,"helllo",100,"04-oct-94","null",10000,0.09);  
13 INSERT INTO cust VALUES (2,"welcome",200,"03-nov-93","London",1000,0.10);  
14 INSERT INTO cust VALUES (3,"everyone",100,"02-oct-93","London",200,0.11);  
15 SELECT cname FROM cust where amt!=0;  
16
```

Run

Clear

Output

helllo
welcome
everyone



ASUS

```
3      id int primary key,  
4      cname varchar(50) not null,  
5      rating int ,  
6      odate varchar(50)not null,  
7      city varchar(50) not null,  
8      amt int,  
9      comm int  
10     );  
11     INSERT INTO cust VALUES (1,"helllo",100,"04-oct-94","null",10000,0.09);  
12     INSERT INTO cust VALUES (2,"welcome",200,"03-nov-93","London",1000,0.10);  
13     INSERT INTO cust VALUES (3,"everyone",100,"02-oct-93","London",200,0.11);  
14     SELECT cname FROM cust where odate in ('03-oct-93','04-oct-94')  
15  
16
```

[Run](#)[Clear](#)

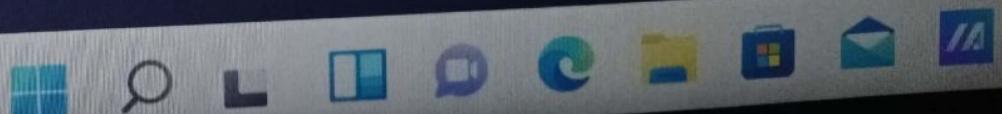
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S

Output

helllo



/*Write and run Sample Sql Query*/

```
1  create table cust
2  (
3      id int primary key,
4      cname varchar(50) not null,
5      rating int ,
6      city varchar(50) not null,
7      amt int,
8      comm int
9  );
10 INSERT INTO cust VALUES (1,"helllo",100,"null",10000,0.09);
11 INSERT INTO cust VALUES (2,"welcomme",200,"London",1000,0.10);
12 INSERT INTO cust VALUES (3,"everyone",100,"London",200,0.11);
13 SELECT cname FROM cust where city ='null';
14
15
```

Run

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Output

helllo



SQL Query

```
1 /*Write and run Sample Sql Query*/
2
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14
15
create table cust
(
    id int primary key,
    cname varchar(50) not null,
    rating int ,
    city varchar(50) not null,
    amt int,
    comm int
);
INSERT INTO cust VALUES (1, "helllo",100,"san jose",10000,0.09);
INSERT INTO cust VALUES (2, "welcome",200,"London",1000,0.10);
INSERT INTO cust VALUES (3, "everyone",100,"London",200,0.11);
SELECT cname,city FROM cust where comm>0.10 and comm<0.12;
```

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Output



Advertisement

Status Code:

everyone|London



SQL Query

```
1 /*Write and run Sample Sql Query*/
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14
15
create table cust
(
    id int primary key,
    cname varchar(50) not null,
    rating int ,
    city varchar(50) not null,
    amt int,
    comm int
);
INSERT INTO cust VALUES (1,"helllo",100,"san jose",10000,0.09);
INSERT INTO cust VALUES (2,"welcome",200,"London",1000,0.10);
INSERT INTO cust VALUES (3,"everyone",100,"London",200,0.11);
SELECT cname,city FROM cust where comm>0.10 and comm<0.12;
```

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Output



Advertisement

Status Code: 200

SQL Query

```
1 /*Write and run Sample Sql Query*/
```

```
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15  
  
create table cust,  
(  
    id int primary key,  
    cname varchar(50) not null,  
    rating int ,  
    city varchar(50) not null,  
    amt int,  
    comm int  
);  
INSERT INTO cust VALUES (1,"helllo",100,"san jose",10000,0.09);  
INSERT INTO cust VALUES (2,"welcome",200,"London",1000,0.10);  
INSERT INTO cust VALUES (3,"everyone",100,"London",200,0.00);  
SELECT cname,city FROM cust where city in('Barcelona','London');
```

Run

Clear



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Output

welcome|London
everyone|London

Status C



ASUS

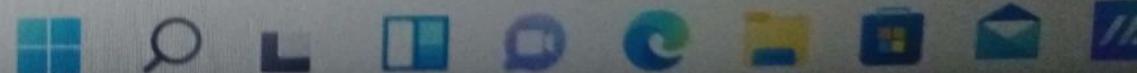
```
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create table cust  
(  
    id int primary key,  
    cname varchar(50) not null,  
    rating int ,  
    city varchar(50) not null,  
    amt int,  
    comm int  
);  
INSERT INTO cust VALUES (1,"helllo",100,"san jose",10000,0.09);  
INSERT INTO cust VALUES (2,"welcome",200,"London",1000,0.10);  
INSERT INTO cust VALUES (3,"everyone",100,"London",200,0.00);  
SELECT cname,city FROM cust where rating<=100 or city='Rome';
```

Run

Clear

Output

helllo|san jose
everyone|London



SQL Query

1 Write and run Sample Sql Query*/

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create table salespeople
(
    id int primary key,
    cname varchar(50) not null,
    rating int ,
    city varchar(50) not null,
    amt int,
    comm int
);
INSERT INTO salespeople VALUES (1,"helllo",100,"san jose",10000,0.09)
INSERT INTO salespeople VALUES (2,"welcome",200,"London",1000,0.10);
INSERT INTO salespeople VALUES (3,"everyone",100,"London",200,0.00);
SELECT cname,city FROM salespeople where comm>=0.10 and city='London'
```

Run

Clear

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Output

welcome|London



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(  
    id int primary key,  
    cname varchar(50) not null,  
    rating int ,  
    city varchar(50) not null,  
    amt int  
);  
INSERT INTO customers VALUES (1,"helllo",100,"san jose",10000);  
INSERT INTO customers VALUES (2,"welcome",200,"san jose",1000);  
INSERT INTO customers VALUES (3,"everyone",100,"hyderabad",200);  
SELECT * FROM customers where amt>1000;
```

Run

Clear

Output

Stat

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```
(  
    id int primary key,  
    cname varchar(50) not null,  
    rating int ,  
    city varchar(50) not null  
);  
INSERT INTO customers VALUES (1,"helllo",100,"san jose");  
INSERT INTO customers VALUES (2,"welcome",200,"san jose");  
INSERT INTO customers VALUES (3,"everyone",100,"hyderabad");  
SELECT cname FROM customers where rating>=200 or city='san jose';
```

Run

Clear

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Output

Status

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1 /*Write and run Sample Sql Query*/  
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```

```
create table customers  
(  
    id int primary key,  
    cname varchar(50) not null,  
    rating int  
);  
INSERT INTO customers VALUES (1,"helllo",100);  
INSERT INTO customers VALUES (2,"welcome",200);  
INSERT INTO customers VALUES (3,"everyone",100);  
SELECT * FROM customers where rating>=200;
```

Run

Clear

Output

```
1 /*Write and run Sample Sql Query*/  
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```
create table orders  
(  
ordno int primary key,  
odate varchar(50) not null,  
amt int  
);  
INSERT INTO orders VALUES (1,"10-10-2000",100);  
SELECT * FROM orders;
```

[Run](#)[Clear](#)

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1|10-10-2000|100



```
1 /*Write and run Sample Sql Query*/
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12
create table salespeople
(
id int primary key,
sname varchar(50) not null,
snum int ,
city varchar(50)not null,
rating int
);
INSERT INTO salespeople VALUES (1,"hari",1,"London",100);
SELECT sname FROM salespeople where rating=100;
```

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Status Code: 200

hari



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I

Run

Clear

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Output

Status Code: 200

hari|1



```
1 /*Write and run Sample Sql Query*/
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I

Run

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Output

Status Code: 200

SQL Query

```
1 /*Write and run Sample Sql Query*/
2
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11
create table salespeople
(
    id int primary key,
    sname varchar(50) not null,
    snum int ,
    city varchar(50)not null
);
INSERT INTO salespeople VALUES (1,"hari",1,"hyderabad");
SELECT DISTINCT snum| FROM salespeople;
```

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SQL Query

```
1 /*Write and run Sample Sql Query*/
2
3
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9
10
11
create table salespeople
(
id int primary key,
sname varchar(50) not null,
snum int ,
city varchar(50)not null
);
INSERT INTO salespeople VALUES (1,"hari",2,"hyderabad");
SELECT * FROM salespeople;
```

I

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Output

1|hari|2|hyderabad

Status C

SQL Query

```
1 /*Write and run Sample Sql Query*/  
2  
3  
4  
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8  
9  
  
create table student  
(  
    id int primary key,  
    name varchar(50) not null  
);  
INSERT INTO student VALUES (1,"hari");  
SELECT * FROM student;
```

Run

Clear

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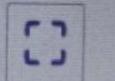
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Output

1|hari





```
1 import java.util.*;
2 public class list{
3 public static void main(String args[]){
4     ArrayList<String> list=new ArrayList<String>();
5     list.add("hello");
6     list.add("all");
7     list.add("welcome");
8     int len=list.size();
9     System.out.print(len);
10 }
11 }
```

```
java -cp /tmp
3
```

Main.java

```
1 import java.util.*;  
2 public class list{  
3 public static void main(String args[]){  
4     ArrayList<String> list=new ArrayList<String>();  
5     list.add("hello");  
6     list.add("all");  
7     list.add("welcome");  
8     list.clear();  
9     System.out.print(list);  
10 }  
11 }
```



Run

Output

```
java -cp /tmp/mY1JsQkC  
[]
```



Type here to search



Main.java



Run

Output

```
1 import java.util.*;
2 public class list{
3 public static void main(String args[]){
4 ArrayList<String> list=new ArrayList<String>();
5     list.add("hello");
6     list.add("all");
7     list.add("welcome");
8     list.add(3,"ok");
9     System.out.println(list);
10    list.set(3,"thanks");
11    System.out.println(list);
12 }
13 }
```

```
java -cp /tmp/mYlJsQkCjk list
[hello, all, welcome, ok]
[hello, all, welcome, thanks]
```



Type here to search

Main.java

```
1- import java.util.*;
2- public class list{
3- public static void main(String args[]){
4- ArrayList<String> list=new ArrayList<String>();
5- list.add("hello");
6- list.add("all");
7- list.add("welcome");
8- list.add(3,"ok");
9- System.out.print(list);
10 }
11 }
```



Output

```
java -cp /tmp/mYlJsQkCjk list
[hello, all, welcome, ok]
```

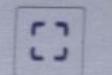


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25°C Partly

Main.java



Run

Output

```
1* import java.util.*;
2* public class list{
3* public static void main(String args[]){
4    ArrayList<String> list=new ArrayList<String>();
5    list.add("hello");
6    list.add("all");
7    list.add("welcome");
8    for(int i=0;i<list.size();i++)
9    {
10       System.out.print(list.get(i)+" ");
11    }
12 }
13 }
```

```
java -cp /tmp/mYlJsQkCjk list
hello all welcome |
```



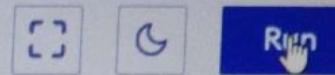
JS



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Main.java



Output

```
1- import java.util.*;  
2- public class list{  
3- public static void main(String args[]){  
4- ArrayList<String> list=new ArrayList<String>();  
5- list.add("hello");  
6- System.out.println(list);  
7- }  
8- }
```

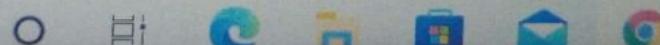
```
java -cp /tmp/mYlJsQkCjk list  
java -cp /tmp/mYlJsQkCjk list  
[hello]
```



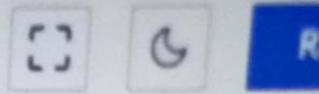
JS



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```
1 import java.io.*;
2 public class Reader {
3
4 public static void main(String[] args) throws IOException{
5
6     FileReader in = new FileReader("test.txt");
7     BufferedReader br = new BufferedReader(in);
8
9     while (br.readLine() != null) {
10         System.out.println(br.readLine());
11     }
12     in.close();
13
14 }
```



```
1 class FileReaderFileWriter
2 {
3     public static void main(String[] args)
4     {
5         String file = "test.txt"; |I
6         String text = null;
7         System.out.println("Content of the file: ");
8         try
9         {
10            {
11                FileReader fileReader = new FileReader(file);
12                BufferedReader bufferedReader = new BufferedReader(fileReader);
13                while ((text = bufferedReader.readLine()) != null)
14                {
15                    System.out.println(text);
16                }
17                bufferedReader.close();
18            }
19            catch (FileNotFoundException ex)
20            {
21                ex.printStackTrace();
22            }
23            catch (IOException ex)
24            {
25                ex.printStackTrace();
26            }
27        }
28    }
```



Type here to search



Main.java

```
1 import java.io.BufferedInputStream;
2 import java.io.FileInputStream;
3 class Main {
4     public static void main(String[] args) {
5         try {
6             FileInputStream file = new FileInputStream("input.txt");
7             BufferedInputStream input = new BufferedInputStream(file);
8             int i = input.read();
9             while (i != -1) {
10                 System.out.print((char) i);
11                 i = input.read();
12             }
13             input.close();
14         }
15         catch (Exception e) {
16             e.printStackTrace();
17         }
18     }
19 }
```



Type here to search



Main.java

```
1 import java.io.FileOutputStream;
2 import java.io.BufferedOutputStream;
3 public class Main {
4     public static void main(String[] args) {
5         String data = "This is a line ";
6         try {
7             FileOutputStream file = new FileOutputStream("output.txt");
8             BufferedOutputStream output = new BufferedOutputStream(file);
9             byte[] array = data.getBytes();
10            output.write(array);
11            output.close();
12        }
13        catch (Exception e) {
14            e.printStackTrace();
15        }
16    }
17 }
```



Type here to search



Run

Main.java

```
1- import java.io.*;
2
3- class FileExample {
4    public static void main(String[] args)
5        throws IOException
6    {
7        int i;
8        FileOutputStream fout = new FileOutputStream("../files/name3.txt",
9                                         true);
10       String st = "TATA";
11       char ch[] = st.toCharArray();
12       for (i = 0; i < st.length(); i++) {
13           fout.write(ch[i]);
14       }
15       fout.close();
16   }
17 }
```



Type here to search



Main.java

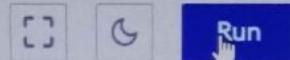
```
1 import java.io.FileInputStream;
2 public class Main {
3     public static void main(String args[]) {
4         try {
5             FileInputStream input = new FileInputStream("input.txt");
6             System.out.println("Data in the file: ");
7             int i = input.read();
8             while(i != -1) {
9                 System.out.print((char)i);
10                i = input.read();
11            }
12            input.close();
13        }
14        catch(Exception e) {
15            e.printStackTrace();
16        }
17    }
18 }
19 }
```



Type here to search



Main.java



Output

```
1 public class StringCharAtExample {  
2     public static void main(String[] args) {  
3         String str = "Java Code!";  
4         System.out.println("Length: " + str.length());  
5         char ch = str.charAt(50);  
6     }  
7 }
```

```
java -cp /tmp/fmwBQfTLB9 StringCharAtExample  
Length: 10  
Exception in thread "main" java.lang.StringIndexOutOfBoundsException:  
    of range: 50  
at java.base/java.lang.StringLatin1.charAt(StringLatin1.java:47)  
at java.base/java.lang.String.charAt(String.java:693)  
at StringCharAtExample.main(StringCharAtExample.java:5)
```

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```
1 public class Tester {  
2     public static void main(String[] args) {  
3         Object ref = null;  
4         ref.toString();  
5     }  
6 }
```

```
java -cp /tmp/fmwBQfTLB9 Tester  
Exception in thread "main" java.lang.NullPointerException  
at Tester.main(Tester.java:4)
```

Main.java

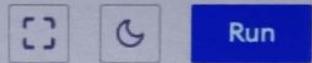


Output

```
1 public class ClassNotFoundExceptionDemo {  
2     private static final String DRIVER_CLASS = "com.mysql.";  
3  
4     public static void main(String[] args) throws Exception{  
5         System.out.println("Trying to load MySQL");  
6         Class.forName(DRIVER_CLASS);  
7     }  
8 }
```

```
java -cp /tmp/QwsxWykHxB ClassNotFoundExceptionDemo  
Trying to load MySQL JDBC driverException in th  
.ClassNotFoundException: com.mysql.  
at java.base/jdk.internal.loader.BuiltinClassLoa  
:581)at java.base/jdk.internal.loader.ClassLo  
(ClassLoader.java:178)  
at java.base/java.lang.ClassLoader.loadClass(  
at java.base/java.lang.Class.forName0(Native I  
at java.base/java.lang.Class.forName(Class.ja  
.main(ClassNotFoundExceptionDemo.java:6)
```

Main.java



Run

Output

```
1 import java.io.*;
2
3 public class Example1
4 {
5     public static void main(String[] args)
6     {
7         FileReader reader = new FileReader("file.txt");
8         BufferedReader br = new BufferedReader(reader);
9         String data =null;
10        while ((data = br.readLine()) != null)
11        {
12            System.out.println(data);
13        }
14        br.close();
15    }
16 }
```

```
javac /tmp/QwsxWYkHxB/Example1.java
/tmp/QwsxWYkHxB/Example1.java:9: error: unreported exception
        must be caught or declared to be thrown
FileReader reader = new FileReader("file.txt");
                                         ^
/tmp/QwsxWYkHxB/Example1.java:20: error: unreported exception
        caught or declared to be thrown
        while ((data = br.readLine()) != null)
                                         ^
/tmp/QwsxWYkHxB/Example1.java:26: error: unreported exception
        caught or declared to be thrown
        br.close();
                                         ^
3 errors
```

Type here to search



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Main.java

```
1 class A
2 {
3     public static void main(String args[])
4     {
5         try
6         {
7             int[] a={1,2,3,4,5};
8             for(int i=0;i<a.length;i++)
9             {
10                 System.out.print(a[6]);
11             }
12         }
13         catch(ArrayIndexOutOfBoundsException e)
14         {
15             System.out.println("outofbound");
16
17         }
18         finally{
19             System.out.print("end");
20         }
21     }
22 }
```

```
java -cp /tmp/QwsxWykHxB A
outofbound
end
```

main.java



Run

```
1 class A
2 {
3     public static void main(String args[])
4     {
5         int[] a={1,2,3,4,5};
6         for(int i=0;i<a.length;i++)
7         {
8             System.out.print(a[6]);
9         }
10    }
11 }
12 }
```

Output

```
java -cp /tmp/QwsxWykHxB A
Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException
bounds for length 5
at A.main(A.java:8)
```

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Main.java



Output

```
1 class A
2 {
3     public static void main(String args[])
4     {
5         try
6         {
7             int n=10;
8             System.out.print(n/0);
9         }
10        catch(ArithméticaException e)
11        {
12            System.out.print("Arithmética exception");
13        }
14        catch(ArrayIndexOutOfBoundsException e)
15        {
16            System.out.print("out of bounds");
17        }
18    }
19 }
20
```

```
java -cp /tmp/QwsxWykHxB A
Arithmética exception
```



Type here to search



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```
1 class A
2 {
3     void display()
4     {
5         int n=10;
6         System.out.print(n/0);
7     }
8 }
9 class Main
10 {
11     public static void main(String args[])
12     {
13         A obj=new A();
14         obj.display();|
15     }
16 }
17
```

```
java -cp /tmp/QwsxWykHxB Main
Exception in thread "main" java.lang.Arithmeti
at A.display(Main.java:6)
at Main.main(Main.java:14)
```



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Main.java



Output

```
1 class Main
2 {
3     public static void main(String args[])
4     {
5         try
6         {
7             int n=10;
8             System.out.print(n/0);
9         }
10        catch(ArithmetricException e)
11        {
12            System.out.print("arithmetic exception");
13        }
14    }
15 }
```

```
java -cp /tmp/QwsxWykHxB Mai
arithmetic exception|
```



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Main.java

```
1 class Main
2 {
3     public static void main(String args[])
4     {
5         int n=10;
6         System.out.print(n/0);
7     }
8 }
```



JS



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Run

Output

```
1 class A
2 {
3     void display(int a,int b)
4     {
5         System.out.println("a= "+a+"b= "+b);
6     }
7     void display(String s)
8     {
9         System.out.print(s);
10    }
11 }
12 class methoverload
13 {
14     public static void main(String args[])
15     {
16         A obj=new A();
17         obj.display(10,30);
18         obj.display("hello");
19     }
20 }
```

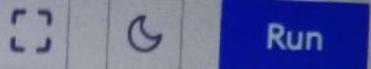
```
java -cp /tmp/L5DJln
a= 10b= 30hello
```

Main.java

```
1 class A
2 {
3     void display(int a)
4     {
5         System.out.println("a= "+a);
6     }
7     void display(String s,int b)
8     {
9         System.out.print(" "+ s+"b= "+b);
10    }
11 }
12 class methoverload
13 {
14     public static void main(String args[])
15     {
16         A obj=new A();
17         obj.display(10);
18         obj.display("hello",90);
19     }
20 }
```

java -cp /tmp/L5I
a= 10
hello b= 90

Main.java



Run

Output

```
1 class A
2 {
3     void display(int a)
4     {
5         System.out.println("a= "+a);
6     }
7     void display(String s)
8     {
9         System.out.print(s);
10    }
11 }
12 class methoverload
13 {
14     public static void main(String args[])
15     {
16         A obj=new A();
17         obj.display(10);
18         obj.display("hello");
19     }
20 }
```

```
java -cp /tmp/L!
a= 10
hello|
```



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Main.java

```
1 class A
2 {
3     void display(int a)
4     {
5         System.out.println("a= "+a);
6     }
7     void display(int s)
8     {
9         System.out.print("s= "+s);
10    }
11 }
12 class methoverload
13 {
14     public static void main(String args[])
15     {
16         A obj=new A();
17         obj.display(10);
18         obj.display(20);
19     }
20 }
```

Main.java



Run

Output

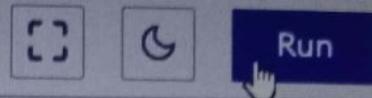
```
1 class A
2 {
3     void display(int a)
4     {
5         System.out.println("a= "+a);
6     }
7     void display(String str)
8     {
9         System.out.print(str);
10    }
11 }
12 class methoverload
13 {
14     public static void main(String args[])
15     {
16         A obj=new A();
17         obj.display(10);
18         obj.display("hari");
19     }
20 }
```

java -cp /tmp/L5DJ1nQl

a= 10

hari

Main.java



Output

```
1 class A
2 {
3     void display()
4     {
5         System.out.println("display");
6     }
7     void display(int a)
8     {
9         System.out.print("a= "+a);
10    }
11 }
12 class methoverload
13 {
14     public static void main(String args[])
15     {
16         A obj=new A();
17         obj.display();
18         obj.display(10);
19     }
20 }
```

```
java -cp /tmp/L5DJ1nQLQN
display
a= 10
```

Main.java

```
1
2  public class A {
3      private int a;
4      protected int b;
5      public int c;
6
7      protected A() {
8          a = 10;
9          b = 20;
10         c = 30;
11     }
12 }
13 class B extends A {
14     public void test() {
15         A obj = new A();
16         //System.out.println("print private not possible :" + a);
17         System.out.println("print protected possible :" + b);
18         System.out.println("print public possible :" + c);
19     }
20 }
21 class C {
22     public static void main(String args[]) {
23         A a = new A();
24         B b = new B();
25         b.test();
26     }
27 }
```

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Main.java



Run

Output

```
1- public class Student {  
2 int id;  
3 String name;  
4 Student(int id, String name)  
5 {  
6     this.id=id;  
7     this.name=name;  
8 }  
9- public static void main(String[] args) {  
10 Student s = new Student(10, "sr");  
11 System.out.println(s.id);  
12 System.out.println(s.name);  
13 }  
14 }
```

```
java -cp /tmp/L5DJlnQLQN S  
10  
sr
```



Type here to search



Main.java



Run

```
1 class A
2 {
3     A()
4     {
5         System.out.print("constructor 1");
6     }
7     A(int a)
8     {
9         System.out.print("a = "+a);
10    }
11 }
12 class overload
13 {
14     public static void main(String args[])
15     {
16         A obj=new A(10);
17         A obj1=new A(10);
18     }
19 }
```

Output

```
java -cp /tmp/L5DJ1nQ
a = 10a = 10
```

Type here to search



Main.java

```
1 class A
2 {
3     A()
4     {
5         System.out.print("constructor 1");
6     }
7     A(int a)
8     {
9         System.out.print("a = "+a);
10    }
11 }
12 class overload
13 {
14     public static void main(String args[])
15     {
16         A obj2=new A();
17         A obj=new A(10);
18     }
19 }
```



Run

Output

```
java -cp /tmp/L5DJlnQLQN overload
constructor 1a = 10|
```



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25°C

Main.java



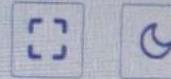
Output

```
1. class Programming {  
2.     public void m1()  
3.     {  
4.         System.out.println("Programming");  
5.     }  
6. }  
7. class DP extends Programming {  
8.     public void m2()  
9.     {  
10.        System.out.println("DP");  
11.    }  
12. }  
13. class GFG {  
14.  
15.     public static void main(String[] args)  
16.     {  
17.         DP obj = new DP();  
18.         obj.m2();  
19.         obj.m1();  
20.     }  
21. }
```

```
java -cp /tmp/LSDJL  
DP  
Programming
```

Main.java

```
1- import java.io.*;
2- class Gets {
3     String name;
4     int id;
5     Gets(String name, int id)
6     {
7         this.name = name;
8         this.id = id;
9     }
10 }
11 class GF {
12     public static void main(String[] args)
13     {
14         Gets obj = new Gets("adam", 1);
15         System.out.println( obj.name
16                             +   obj.id);
17     }
18 }
```



Run

Output

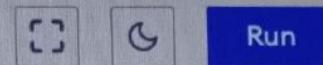
```
java -cp /tmp/L5DJlnQLQN G
adam1
```



Type here to search



Main.java



Output

```
1 class Student{  
2     int rollno;  
3     String name;  
4     float fee;  
5     Student(int rollno, String name, float fee){  
6         this.rollno=rollno;  
7         this.name=name;  
8         this.fee=fee;  
9     }  
10    void display(){System.out.println(rollno+" "+name+" "+fee);}  
11 }  
12  
13 class TestThis2{  
14     public static void main(String args[]){  
15         Student s1=new Student(111,"ankit",5000f);  
16         Student s2=new Student(112,"sumit",6000f);  
17         s1.display();  
18         s2.display();  
19     } }
```

```
java -cp /tmp/L5DJlnQLQN TestThis2  
111 ankit 5000.0112 sumit 6000.0
```

Main.java



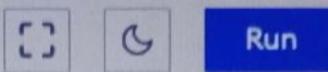
Run

Output

```
1• class First{  
2  Second obj;  
3• First(Second obj){  
4      this.obj=obj;  
5  }  
6• void display(){  
7      System.out.println(obj.data);  
8  }  
9 }  
10 class Second{  
11     int data=10;  
12     Second(){  
13         First b=new First(this);  
14         b.display();  
15     }  
16     public static void main(String args[]){  
17         Second a=new Second();  
18     }  
19 }  
20
```

```
java -cp /tmp/QIsS4tGofM Second  
10|
```

Main.java



Run

Output

```
1 class Test
2 {
3     int a;
4     int b;
5     Test(int a, int b)
6     {
7         this.a = a;
8         this.b = b;
9     }
10
11    void display()
12    {
13        System.out.println("a = " + a + " b = " + b);
14    }
15
16    public static void main(String[] args)
17    {
18        Test object = new Test(10, 20);
19        object.display();
20    }
21 }
```

```
java -cp /tmp/QIsS4tGofM Test
```

```
a = 10 b = 20
```



Main.java



Run

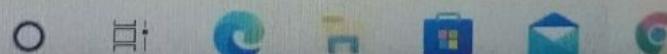
Output

```
1 class A
2 {
3     int a=10;
4     void show()
5     {
6         System.out.print("A class");
7     }
8 }
9 class B extends A
10 {
11     int a=20;
12     void display()
13     {
14         System.out.println("B class");
15         System.out.println(super.a);
16     }
17 }
18 class Main
19 {
20     public static void main(String args[])
21     {
22         B obj=new B();
23         obj.display();
24     }
25 }
```

```
java -cp /tmp/QIsS4tGofM Main
B class
10
```



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Main.java



Run

Output

```
1 class demo
2 {
3     int a=10;
4     void display()
5     {
6         int a=20;
7         System.out.println(a);
8         System.out.println(this.a);
9     }
10    public static void main(String args[])
11    {
12        demo obj=new demo();
13        obj.display();
14    }
15 }
```

```
java -cp /  
20  
10
```

Main.java

```
1- interface MemberInterface {  
2     public String str = "There will be an error.";  
3     void display();  
4 }  
5  
6- public class Main implements MemberInterface {  
7     public void display() {  
8         System.out.print("Public modifiers allowed");  
9         System.out.print("for Data Members");  
10    }  
11 }  
12 class Main  
13 {  
14     public static void main(String[] args) {  
15         Main m = new Main();  
16         m.display();  
17         System.out.println(str);  
18     }  
19 }
```



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Main.java

```
1- interface PrivateMemberInterface {  
2     protected String str = "There will be an error.";  
3     void display();  
4 }  
5  
6- public class Main implements PrivateMemberInterface {  
7     public void display() {  
8         System.out.print("Protected modifiers not allowed");  
9         System.out.print("for Data Members");  
10    }  
11  
12-    public static void main(String[] args) {  
13        Main m = new Main();  
14        m.display();  
15        System.out.println(str); |  
16    }  
17 }
```



Main.java

```
1• interface PrivateMemberInterface {  
2      private String str = "There will be an error.";  
3      void display();  
4  }  
5  
6• public class Main implements PrivateMemberInterface {  
7      public void display() {  
8          System.out.print("Private modifiers not allowed");  
9          System.out.print("for Data Members");  
10     }  
11  
12•     public static void main(String[] args) {  
13         Main m = new Main();  
14         m.display();  
15         System.out.println(str);  
16     }  
17 }
```

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Main.java



Run

Output

```
1 interface animal
2 {
3     public void show();
4 }
5 class pig implements animal
6 {
7     public void show()
8     {
9         System.out.print("ok shown");
10    }
11 }
12 class Main
13 {
14     public static void main(String args[])
15     {
16         pig obj=new pig();
17         obj.show();
18     }
19 }
```

Main.java

```
1 interface In1
2 {
3     final int a = 10;
4     default void display()
5     {
6         System.out.println("hello");
7     }
8 }
9 class TestClass implements In1
10 {
11     public static void main (String[] args)
12     {
13         TestClass t = new TestClass();
14         t.display();
15     }
16 }
```

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Main.java

```
1 interface In1
2 {
3     final int a = 10;
4     static void display()
5     {
6         System.out.println("hello");
7     }
8 }
9 class TestClass implements In1
10 {
11     public static void main (String[] args)
12     {
13         In1.display();
14     }
15 }
```



Main.java



```
1 interface A {  
2     public void display();  
3 }  
4 class P implements A {  
5     public void display() {  
6         System.out.println("yes");  
7     }  
8     public void sleep() {  
9         System.out.println("Z");  
10    }  
11 }  
12 class Main {  
13     public static void main(String[] args) {  
14         P myP = new P();  
15         myP.display();  
16     }  
17 }
```

Output

```
java -cp /tmp/H7aBeCoZlp Main  
yes
```



JS



Type here to search



Main.java



Run

Output

```
1• interface Animal {  
2  public void animalSound(); |  
3 }  
4• class Pig implements Animal {  
5  public void animalSound() {  
6    System.out.println("The pig says: wee wee");  
7  }  
8 }  
9• class Main {  
10   public static void main(String[] args) {  
11     Pig myPig = new Pig();  
12     myPig.animalSound();  
13   }  
14 }
```

java -cp /tmp/H7aBeCoZJ

The pig says: wee wee

java -cp /tmp/H7aBeCoZJ

The pig says: wee wee

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