

Main.java

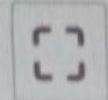
```
4         System.out.println("super");
5     }
6 }
7 public class concret extends Test{
8
9     void t1()
10    {
11         System.out.println("child");
12    }
13    void t2()
14    {
15         System.out.println("child2");
16    }
17 }
18 public class run {
19     public static void main(String[] args) {
20         Test t=new concret();
21         t.t1();
22     }
}
```



Run



Main.java



Run

Output

```
1- abstract class Animal {  
2-     abstract void makeSound();  
3-     public void eat() {  
4-         System.out.println("I can eat.");  
5-     }  
6- }  
7- class Dog extends Animal {  
8-     public void makeSound() {  
9-         System.out.println("Bark bark");  
10-    }  
11- }  
12- class Main {  
13-     public static void main(String[] args)  
14-     {  
15-         Dog d1 = new Dog();  
16-         d1.makeSound();  
17-         d1.eat();  
18-     }  
19- }
```

```
java -cp /tmp/nOM4  
Bark bark  
I can eat.
```



Main.java



Run

Output

```
1 abstract class Language
2 {
3     public void display()
4     {
5         System.out.println("This is Java Programming");
6     }
7 }
8
9 class Main extends Language
10{
11    public static void main(String[] args)
12    {
13        Main obj = new Main();
14        obj.display();
15    }
16}
```

```
java -cp /tmp/n0M4k4HGpn M
This is Java Programming
```



Main.java



Run

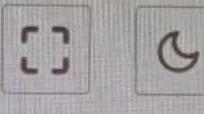
Output

```
1 class A
2 {
3     int a=10;
4     protected void show()
5     {
6         System.out.print("yes");
7     }
8 }
9 class B extends A
10 {
11     public static void main(String args[])
12     {
13         A obj =new A();
14         obj.show();
15     }
16 }
```

```
java -cp /tmp/nOM4k
yes
java -cp /tmp/nOM
yes
```



Main.java



Output

```
1 class A{  
2     public void msg()  
3     {  
4         System.out.println("Helloworld");  
5     }  
6 }  
7 }  
8 class B{  
9     public static void main(String args[]){  
10        A obj = new A();  
11        obj.msg();  
12    }  
13 }
```

```
java -cp /tmp/RLV3DKOD  
Helloworld
```



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Main.java



Run

Output

```
1+ class A{  
2    void msg(){System.out.println("Hello");}  
3 }  
4+ class B{  
5    public static void main(String args[]){  
6        A obj = new A();  
7        obj.msg();[  
8    }  
9 }
```

```
java -cp /tmp/RLV3Dk0DXo B  
Hello
```



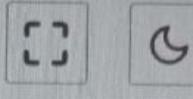
JS





JS

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



Output

```
java -cp /tmp/RLV3Dk0DXo p
java -cp /tmp/RLV3Dk0DXo p
B classjava -cp /tmp/RLV3Dk0DXo p
java -cp /tmp/RLV3Dk0DXo p
B classjava -cp /tmp/RLV3Dk0DXo p
B classB classB class
```

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Main.java

```
16 
17 class C extends B
18 {
19     int a=30;
20     void dis()
21 {
22     System.out.println(" "+C class"+ " ");
23     System.out.println(super.a);
24 }
25 }
26 class override
27 {
28     ,
29     public static void main(String args[])
30     {
31         C obj=new C();
32         System.out.print(obj.a);
33         obj.dis();
34 }
```



Run

Output

java -cp /tmp/RLV3DkODXo overr
30 C class 20



Main.java



Run

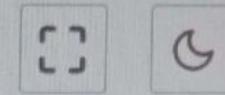
Output

```
16 ~ {  
17     static void dis()  
18 ~ {  
19     System.out.print("C class");  
20 }  
21 }  
22 class override  
23 ~ {  
24     public static void main(String args[])  
25 ~ {  
26     A obj1=new A();  
27     B obj2=new B();  
28     C obj= new C();  
29     A.display();  
30     B.show();  
31     C.dis();  
32 }  
33 }
```

```
^ java -cp /tmp/RLV3Dk0DXo over  
A classB classC class
```



Main.java



Run

Output

```
11  }
12      System.out.print("B class");
13  }
14 }
15 class C extends B
16 {
17     static void dis()
18  {
19      System.out.print("C class");
20  }
21 }
22 class override
23 {
24     public static void main(String args[])
25  {
26     C obj= new C();
27     C.dis();
28  }
29 }
```

```
java -cp /tmp/RLV3DkODX
C class|
```



Main.java



Run

Output

```
1 public class GFG {  
2     public static void main(String args[])  
3     {  
4         String str = "helloworld";  
5         String[] arrOfStr = str.split("w", 2);  
6  
7         for (String a : arrOfStr)  
8             System.out.println(a+" ");  
9     }  
10 }
```

```
java -cp /tmp/JAu0ZVl4nA  
hello elcome
```



Main.java



Run

Output

```
1 public class StringValueOfExample
2 {
3     public static void main(String args[])
4     {
5         int value=30;
6         String s1=String.valueOf(value);
7         System.out.println(s1+10); |   I
8     }
9 }
```

```
java -cp /tmp/JAu0
3010
```



Main.java



Run

Output

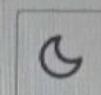
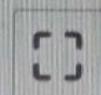
```
1 public class Index1
2 {
3     public static void main(String args[])
4     {
5         String str = new String("hello");
6         System.out.print(str.replace('o','i'));
```

```
java -cp /tmp/
helli
```

I



Main.java



Output

```
1 public class Index1
2 {
3     public static void main(String args[])
4     {
5         String str = new String("hello");
6         System.out.print(str.toUpperCase());
7
8     }
9 }
```

```
java -cp /tmp/JAu
HELLO
```



JS

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ain.java



Run

Output

```
public class Index1
{
    public static void main(String args[])
    {
        String str = new String("HELLO");
        System.out.print(str.toLowerCase());
    }
}
```

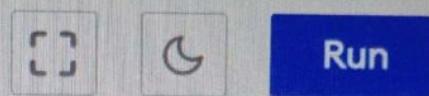
java -cp /
hello

```
1 public class Index1
2 {
3     public static void main(String args[])
4     {
5         String str = new String("Welcome to all");
6         String str2 =new String("hello");
7         System.out.print(str.equals(str2));
8     }
9 }
10 }
```

```
java -cp /tr
false
```



ain.java



Output

```
public class Index1
{
    public static void main(String args[])
    {
        String str = new String("Welcome to all");
        System.out.print("Found t first at position : ");
        System.out.println(str.indexOf('t'));
    }
}
```

```
java -cp /tmp/JAu0ZVl4nA Index1
Found t first at position : 8
```



Main.java



Run

Output

```
1 public class Substring {  
2     public static void main(String args[]) {  
3  
4         String str = "Welcome to Tutorialspoint";  
5         String sub = str.substring(10, 25);  
6         System.out.println(sub);  
7     }  
8 }
```

```
java -cp /tmp/JAu0ZV14nA Su  
Tutorialspoint
```



Main.java



Run

Output

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         String str="hello";
7         int len=str.length();
8         System.out.print(len);
9     }
10 }
```

```
java -cp /tmp/JAu0ZVl4nA Main
5
```



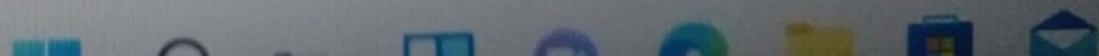
Main.java



Output

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         String str="hello";
7         System.out.print(str+"all");
8     }
9 }
```

```
java -cp /tmp/
helloall
```





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Main.java



Output

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         String str="hello";
7         System.out.print(str);
8     }
9 }
```

```
java -cp /tmp/JAu0ZV
hello
```



JS





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Main.java

```
1 import java.io.*;
2
3 class Foot {
4
5     String name = "";
6     public void cast(String name)
7     {
8         this.name = name;
9     }
10 }
11
12 class GF1 {
13     public static void main(String[] args)
14     {
15         Foot ob = new Foot();
16         ob.cast("hello");
17         System.out.println(ob.name);
18     }
19 }
```



Output

```
java -cp /tmp/JAu0ZVl4nA GFG
hello
```



Main.java

```
1 class Languages {  
2     public static void main(String[] args) {  
3         display();  
4     }  
5     static void display() {  
6         System.out.println("Java ");  
7     }  
8 }
```



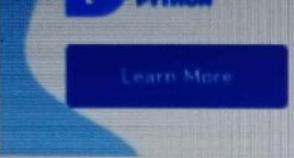
Run

Output

java -cp

Java

T



Main.java



Run

Output

```
1 public class demo
2 {
3     static int i=10;
4     public static void main(String args[])
5     {
6         System.out.println(i+" ");
7         demo d1=new demo();
8         d1.i=20;
9         System.out.println("new i="+ d1.i);
10
11    }
12 }
```

```
java -cp /tmp/
10
new i=20
```

Main.java



Run

Output

```
1 class InstanceVariableDemo{  
2     int i = 20;  
3     public static void main(String...args){  
4         InstanceVariableDemo demo1 = new InstanceVariableDemo();  
5         demo1.i = 40;  
6         System.out.println("i = "+demo1.i);  
7     }  
8 }  
9 }
```

java -cp /tmp/JAu0ZVl4nA
i = 40



```
java -cp /tr  
10|
```

```
1 public class Test {  
2     public int instanceVariable = 10;  
3     public static void main(String args[]) {  
4         Test test = new Test();  
5         System.out.println(test.instanceVariable);  
6     }  
7 }
```

7



Main.java

```
1  public static void main(String args[])
2  {
3      int[] a={1,2,3,4,5};
4      for(int i=0;i<a.length;i++)
5      {
6          if(a[i]%2==0)
7          {
8              System.out.print( " even:"+a[i]+" ");
9          }
10         System.out.println(" ");
11         for(int i=0;i<a.length;i++)
12         {
13             if(a[i]%2!=0)
14             {
15                 System.out.print( " odd:"+a[i]+" ");
16             }
17         }
18     }
19 }
```

Output

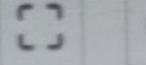
```
java -cp /tmp/JAu0ZVl4nA Main
even:2 even:4
odd:1 odd:3 odd:5
```

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ASUS

java



Run

Output

```
public int min(int[] array) {
    int min = array[0];
    for(int i=0; i<array.length; i++ ) {
        if(array[i]<min) {
            min = array[i];
        }
    }
    return min;
}
```

```
public static void main(String args[]) {
    int[] myArray = {23, 92, 56, 39, 93};
    MinAndMax m = new MinAndMax();
    System.out.println("Maximum value in the array is::"+m
        .max(myArray));
    System.out.println("Minimum value in the array is::"+m
        .min(myArray));
    System.out.print(m.max(myArray)-m.min(myArray));
}
```

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```
java -cp /tmp/JAu0ZVl4nA M
Maximum value in the array
70
```



ASUS



Run

Output

```
int max = 0;

for(int i=0; i<array.length; i++ ) {
    if(array[i]>max) {
        max = array[i];
    }
}
return max;
}

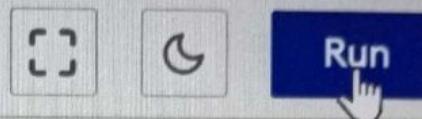
public int min(int [] array) {
    int min = array[0];
    ,

    for(int i=0; i<array.length; i++ ) {
        if(array[i]<min) {
            min = array[i];
        }
    }
    return min;
}
```

```
java -cp /tmp/JAu0ZVl4nA MinAndMax
Maximum value in the array is::93
Minimum value in the array is::23
```



Main.java



```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         Scanner sc=new Scanner(System.in);
7         int[] arr={1,2,1,3,3};
8         int max=arr[0];
9         for(int i=0;i<arr.length;i++)
10        {
11            if(arr[i]>max);
12            max=arr[i];
13        }
14        System.out.print(max);
15    }
16 }
```

Output

```
java -cp /tmp/NfIpmp1N
3
3
3
```

ain.java



Run

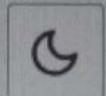
Output

```
- import java.util.*;
public class Main
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        int[] arr={1,2,1,3,3,0};
        int min=arr[0];
        for(int i=0;i<arr.length;i++)
        {
            if(arr[i]<min);
            min=arr[i];
        }
        System.out.print(min);
    }
}
```

```
java -cp /tmp/N1
0
```



Main.java



Output

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         Scanner sc=new Scanner(System.in);
7         int[] arr={1,2,1,3,3};
8         for(int i=0;i<arr.length;i++)
9         {
10             for(int j=i+1;j<arr.length;j++)
11             {
12                 if(arr[i]==arr[j])
13                 {
14                     System.out.print(arr[j]+" ");
15                 }
16             }
17         }
18     }
19 }
```

```
^ java -cp /tmp/N
1 3 |
```



Main.java



Run

Output

```
1  package com.reverserarray;
2  static void reverse(int a[], int n)
3  {
4      int[] b = new int[n];
5      int j = n;
6      for (int i = 0; i < n; i++) {
7          b[j - 1] = a[i];
8          j = j - 1;
9      }
10     System.out.println("Reversed array is: \n");
11     for (int k = 0; k < n; k++) {
12         System.out.println(b[k]);
13     }
14 }
15 public static void main(String[] args)
16 {
17     int [] arr = {10, 20, 30, 40, 50};
18     reverse(arr, arr.length);
19 }
```

```
^ java -cp /tmp/NfIpmlNwpv reversedarray
Reversed array is:
5040
30
20
10
```



Main.java



Run

Output

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         int a[]={1,2,3,4};
7         int b[]=new int[a.length];
8         for(int i=0;i<a.length;i++)
9         {
10             b[i]=a[i];
11         }
12         for(int i=0;i<b.length;i++)
13         {
14             System.out.print(b[i]);
15         }
16     }
17 }
```

```
java -cp /tmp/NfIpml
1234
```



```
4  public static void main(String args[])
5  {
6      Scanner sc=new Scanner(System.in);
7      int n=sc.nextInt();
8      int arr[]={};
9      for(int i=0;i<n;i++)
10     {
11         arr[i]=sc.nextInt();
12     }
13     int s=sc.nextInt();
14     for(int i=0;i<arr.length;i++)
15     {
16         ,
17         if(s==arr[i])
18         {
19             System.out.print("present");
20         }
21     }
22 }
```



Output

```
java -cp /tmp/RXAYXjFW
2
1 2
2
2
presentpresent|
```



Main.java



Output

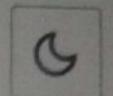
```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         Scanner sc=new Scanner(System.in);
7         int n=sc.nextInt();
8         int arr[]=new int[n];
9         for(int i=0;i<n;i++)
10        {
11            arr[i]=sc.nextInt();
12        }
13        for(int i=0;i<arr.length;i++)
14        {
15            System.out.print(i+" ");
16        }
17    }
18 }
```

```
java -cp /tmp/RXAYXjFWjt
4
1 2 3 4
0 1 2 3 |
```





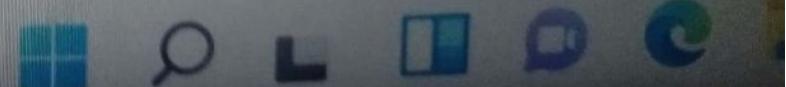
Main.java



Run

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         int[] arr={'1','2','3','4'};
7         int avg=0;
8         int len=arr.length;
9         for(int i=0;i<len;i++)
10        {
11             avg=avg+arr[i];
12         }
13         avg=avg/len;
14         System.out.print(avg);
15     }
16 }
```

JS



Main.java



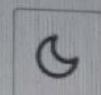
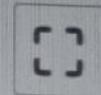
Run
[Mouse cursor over Run button]

Output

java -cp /tmp/RXAYXjFw
[1, 11]

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





Run

Output

```
Scanner sc=new Scanner(System.in);
int n=sc.nextInt();
int sum=0;
int temp=n;
while(n!=0)
{
    sum=(sum*10)+n%10;
    n=n/10;
}
if(temp==sum)
{
    System.out.print("palindrome");
}
else
{
    System.out.print("not palindrome");
}
```

```
java -cp /tmp/IPloXHuMO M
131
palindrome
```



Main.java



Output

```
6     Scanner sc=new Scanner(System.in);
7     int n=sc.nextInt();
8     if(n<=1)
9     {
10         System.out.print("not prime");
11     }
12     if(n==2||n==3)
13     {
14         System.out.print("prime");
15     }
16     for(int i=4;i*i<=n;i++)
17     {
18         if(n%i==0)
19             System.out.print("not prime");
20     }
21     System.out.print("prime");
22
23
```

```
java -cp /tmp/IPloXHuM0 Main
9
prime
```



ASUS

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         int i=1;
7         do
8         {
9             System.out.print(i+" ");
10            i++;
11        }
12        while(i<=10);
13    }
14 }
```

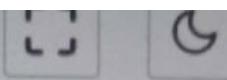
```
java -cp /tmp/IPloXHuul
1 2 3 4 5 6 7 8 9 10
```



```
1 import java.util.*;  
2 public class Main  
3 {  
4     public static void main(String args[])  
5     {  
6         int i=10;  
7         while(i<=100)  
8         {  
9             System.out.print(i+" ");  
10            i=i+2;  
11        }  
12    }  
13 }  
14 }
```

```
java -cp /tmp/IPloXHuMO Main  
10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40  
58 60 62 64 66 68 70 72 74 76 78 80 82 84
```

Main.java



Run

Output

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         Scanner sc=new Scanner(System.in);
7         int a=sc.nextInt();
8         int b=sc.nextInt();
9         int c=sc.nextInt();
10        int temp=(a>b)?a:b;
11        int greater=(temp>c)?temp:c;
12        System.out.print(greater);
13    }
14 }
```

```
java -cp /tmp/IPloXH
10 20 30
30
```



Main.java

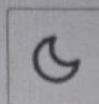
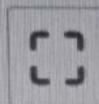
```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         Scanner sc=new Scanner(System.in);
7         int a=sc.nextInt();
8         if(a%2==0)
9         {
10             System.out.print("even");
11         }
12         else
13         {
14             System.out.print("odd");
15         }
16     }
17 }
18 }
```



Output

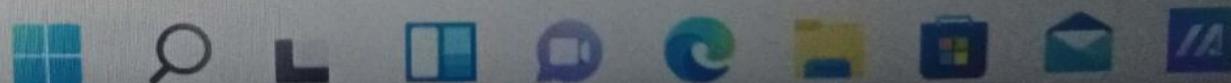
```
java -cp /tmp/IPloXHuuMO
6
even|
```





```
• import java.util.*;
public class Main
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        int a=sc.nextInt();
        int b=sc.nextInt();
        if(a!=b)
        {
            System.out.print("not equal");
        }
        else
        {
            System.out.print("equal");
        }
    }
}
```

```
java -cp /tmp/IPL
5 5
equal
```



Main.java



Output

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         Scanner sc=new Scanner(System.in);
7         int a=sc.nextInt();
8         int b=sc.nextInt();
9         if(a==b)
10        {
11             System.out.print("equal");
12         }
13         else
14        {
15             System.out.print("not equal");
16         }
17     }
18 }
```

```
java -cp /tmp/IPloXHuMO M
5 7
not equal
```



```
4 import java.util.*;
5 public class Main
6 {
7     public static void main(String args[])
8     {
9         for(int i=1;i<=20;i++)
10        {
11            System.out.print(i+" ");
12        }
13    }
14 }
```

```
java -cp /tmp/IPloXHuMO Main
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
```



Main.java

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         for(int i=0;i<10;i++)
7         {
8             System.out.println("Bright Carrer");
9         }
10    }
11 }
```



Run

Output

```
java -cp /tmp/IPloXHuMO Main
Bright CarrerBright Carrer
Bright Carrer
```



```
public static void main(String args[])
{
    Scanner sc=new Scanner(System.in);
    int a=sc.nextInt();
    int b=sc.nextInt();
    if(a<b)
    {
        System.out.print("b greater");
    }
    else if(a>b)
    {
        System.out.print("a greater");
    }
    else
    {
        System.out.print("both equal");
    }
}
```

```
java -cp /tmp/IPloXHuuumC
5 4
a greater
```



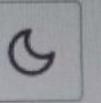
```
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23 }
```

Scanner sc=new Scanner(System.in);
int a=sc.nextInt();
int b=sc.nextInt();
int c=sc.nextInt();
if((a==b) && (b==c))
{
 System.out.print("all equal");
}
else if((a==b) || (b==c))
{
 System.out.print("some equal");
}
else
{
 System.out.print("not equal");
}

java -cp /tmp/IP
10 10 10
all equal



Main.java



Run

Output

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         Scanner sc=new Scanner(System.in);
7         int a=sc.nextInt();
8         int b=sc.nextInt();
9         if(a!=b)
10        {
11             System.out.print("not equal");
12         }
13         else
14        {
15             System.out.print("equal");
16         }
17     }
18 }
```

```
java -cp /tmp/
6 5
not equal
```



Main.java



Run

Output

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         Scanner sc=new Scanner(System.in);
7         int a=sc.nextInt();
8         int b=sc.nextInt();
9         if(a==b)
10        {
11             System.out.print("equal");
12         }
13         else
14        {
15             System.out.print("not equal");
16         }
17     }
18 }
```

```
java -cp /tmp/IPL
5 5
equal
```



```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         Scanner sc=new Scanner(System.in);
7         int a=sc.nextInt();
8         int plus=a++;
9         int minus=a--;
10        int cross=++a;
11        int divison=--a;
12        System.out.print(plus+" "+minus+" "+cross+" "+divison);
13    }
14 }
```

```
java -cp /tmp/1
6
6 7 7 6
```

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Main.java



Output

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         Scanner sc=new Scanner(System.in);
7         int a=sc.nextInt();
8         int b=sc.nextInt();
9         int plus=a+b;
10        int minus=a-b;
11        int cross=a*b;
12        int divison=a/b;
13        System.out.print(plus+" "+minus+" "+cross+" "+divison);
14    }
15 }
```

```
java -cp /tmp/IPloXHuU
20 10
30 10 200 2
```



Main.java



Run

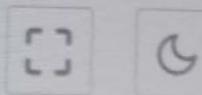
Output

```
1 public class Demo {  
2     public void Rank() {  
3         int rank = 0;  
4         rank = rank + 7;  
5         System.out.println("Rank = " + rank);  
6     }  
7     public static void main(String args[]) {  
8         Demo d = new Demo();  
9         d.Rank();  
10    }  
11 }
```

```
java -cp /tmp/Zhe  
Rank = 7
```



Main.java



Run

Output

```
1 import java.util.*;
2 public class text
3 {
4     static void name()
5     {
6         System.out.print("hari krishna");
7     }
8     public static void main(String args[])
9     {
10        text obj=new text();
11        text.name();
12    }
13 }
```

```
java -cp /tmp/Zheq380B0
hari krishna
```



ain.java

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         int a=10;
7         String str="hello";
8         char t='s';
9         float b=10;
10        boolean res=true;
11        System.out.print(a+" "+str+" "+t+" "+b+" "+res);
12    }
13 }
```



Output

```
java -cp /tmp/Zheq380BGo Main
10 hello s 10.0 true
```



Main.java

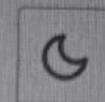
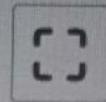
```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         System.out.print("hari krishna");
7     }
8 }
9 }
```

```
java -cp /tmp/Zheq3
hari krishna
```





Main.java



Output

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         Scanner sc=new Scanner(System.in);
7         int a=sc.nextInt();
8         System.out.print(a);
9     }
10 }
```

7

JS



i) Properties of ArrayList

- Dynamic memory allocation
- Adding Items
- Searching Items
- Sorting Items

ii) Methods of ArrayList

- ii) add()
- iii) clear()
- iii) contains()
- iv) addAll()

Array vs ArrayList

- i) ArrayList is dynamic in size
- ii) Array is fixed length

Main.java



Run

Output

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         List<String>mylist=new ArrayList<String>();
7         mylist.add("one");
8         mylist.add("two");
9         mylist.add("three");
10        Collections.sort(mylist);
11        System.out.print(mylist);
12    }
13 }
```

```
java -cp /tmp/1CC4p8ml
[one, three, two]
```



Type here to search



Main.java



Run

Output

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         List<String>mylist=new ArrayList<String>();
7         mylist.add("one");
8         mylist.add("two");
9         mylist.add("three");
10        Collections.reverse(mylist);
11        System.out.print(mylist);
12    }
13 }
```

```
java -cp /tmp/PGZDYDVEPb M
[three, two, one]
```



Type here to search



Main.java



```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         List<String>mylist=new ArrayList<String>();
7         mylist.add("one");
8         mylist.add("two");
9         mylist.add("three");
10        mylist.clear();
11        System.out.print(mylist);
12    }
13 }
```

Output

```
java -cp /tmp/PGZDYDVEPb Main
[]
```

Main.java



Run

Output

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         List<String>mylist=new ArrayList<String>();
7         mylist.add("one");
8         mylist.add("two");
9         mylist.add("three");
10        for(String str:mylist)
11        {
12            System.out.print(str);
13        }
14    }
15 }
```

```
java -cp /tmp/PGZDYDVEPb Main
onetwothree
```



Type here to search



```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         List<String>mylist=new ArrayList<String>();
7         mylist.add("one");
8         mylist.add("two");
9         mylist.add("three");
10        for(int i=0;i<mylist.size();i++)
11        {
12            System.out.print(mylist.get(i)+" ");
13        }
14    }
15 }
```

```
java -cp /tmp/PGZDYDVEPb
one two three |
```



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Main.java



Run

Output

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         List<String>mylist=new ArrayList<String>();
7         mylist.add("one");
8         mylist.add("two");
9         mylist.add("three");
10        System.out.print(mylist);
11    }
12 }
```

```
java -cp /tmp/PGZDYZDVEPb Main
[one, two, three]
```



JS

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Type here to search



24°C

```
4 table.row.add( {  
5     "name": "krishna",  
6     "position": "engineer",  
7     "salary": "300000",  
8     "start_date": "30/02/2022",  
9     "office": "Hyderabad",  
10 } ).draw();
```

1. Properties of datatable

columns

- To get collection of columns of a Table.

constraints

- To get collections of constraints by this table

2. Methods of datatable

i) AcceptChanges()

ii) clear()

iii) clone()

iv) copy() .

Execute | > Share

main.sql

STDIN

```
1 CREATE TABLE dept
2     (deptno NUMBER(2),
3      dname VARCHAR2(14),
4      loc VARCHAR2(13));|
```

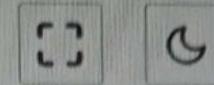
I

```
1 import java.util.*;  
2 public class Main  
3 {  
4     public static void main(String args[])  
5     {  
6         List<Integer>mylist=new ArrayList<Integer>();  
7         mylist.add(1);  
8         mylist.add(2);  
9         mylist.add(3);  
10        mylist.add(4);  
11        mylist.remove(2);//at 2nd index  
12        System.out.print(mylist);  
13    }  
14}
```

```
java -cp /tmp/5J6  
[1, 2, 4]
```



Main.java



Run

Output

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         List<Integer>mylist=new ArrayList<Integer>();
7         mylist.add(1);
8         mylist.add(2);
9         mylist.add(3);
10        mylist.add(4);
11        Collections.reverse(mylist);
12        System.out.print(mylist);
13    }
14 }
```

```
java -cp /tmp/5J6Zfj8dSz
[4, 3, 2, 1]
```



Main.java

Run

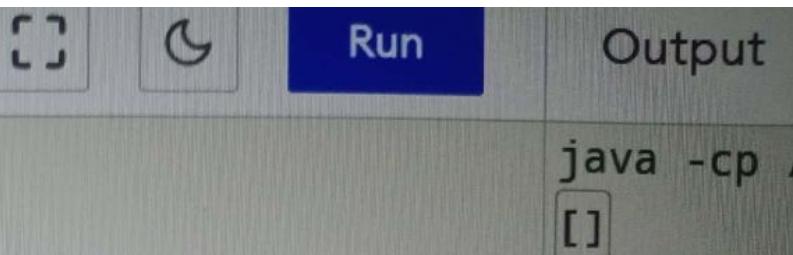
Output

```
4     public static void main(String args[])
5     {
6         List<String>mylist=new ArrayList<String>();
7         mylist.add("hello");
8         mylist.add("welcome");
9         mylist.add("kishore");
10        for(int i=0;i<mylist.size();i++)
11        {
12            if(mylist.get(i).contains("kishore"))
13            {
14                System.out.println("found");
15            }
16            else
17            {
18                System.out.println("notfound" + " ");
19            }
20        }
21    }
22 }
```

```
java -cp /tmp/
notfound
notfound
found
```



Main.java



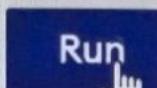
```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         List<String>mylist=new ArrayList<String>();
7         mylist.add("hello");
8         mylist.add("welcome");
9         mylist.add("all");
10        mylist.clear();
11        System.out.print(mylist);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



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Main.java



Output

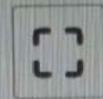
```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         List<String>mylist=new ArrayList<String>();
7         mylist.add("hello");
8         mylist.add("welcome");
9         mylist.add("all");
10        int count=0;
11        for(int i=0;i<mylist.size();i++)
12        {
13            count=count+1;
14        }
15        System.out.print(count);
16    }
17 }
```

```
java -cp /tmp/5J6Zfj8dSZ Ma
3
```



ain.java

```
• import java.util.*;
 public class Main
{
    public static void main(String args[])
    {
        List<String>mylist=new ArrayList<String>();
        mylist.add("hello");
        mylist.add("welcome");
        mylist.add("all");
        for(String str : mylist)
        {
            System.out.print(str+" ");
        }
    }
}
```



Run

Output

```
java -cp /tmp/5J6Zfj8dSZ
hello welcome all |
```



Main.java



Run

Output

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         List<String>mylist=new ArrayList<String>();
7         mylist.add("hello");
8         mylist.add("welcome");
9         mylist.add("all");
10        for(int i=0;i<mylist.size();i++)
11        {
12            System.out.print(mylist.get(i)+" ");
13        }
14    }
15 }
```

```
java -cp /tmp/5J6Zfj8dSZ Main
hello welcome all |
```



Main.java



Run

Output

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

```
java -cp /tmp/5J6Zfj8dSZ Main
[hello, welcome, all]
```





Main.java



Run

Output

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         List<Integer>mylist=new ArrayList<Integer>();
7
8         mylist.add(1);
9         mylist.add(2);
10        mylist.add(3);
11        for (int i : mylist)
12        {
13            System.out.println(i);
14        }
15    }
16 }
```

```
java -cp /tmp/5J6Zfj8
```

```
1
```

```
2
```

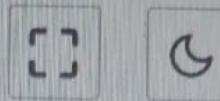
```
3
```



JS



Main.java



Run

Output

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         List<Integer>mylist=new ArrayList<Integer>();
7         for(int i=1;i<=5;i++)
8         {
9             mylist.add(i);
10        }
11        System.out.print(mylist);
12    }
13 }
```

```
java -cp /tmp/5J6Zfj
[1, 2, 3, 4, 5]
```



Main.java



Run

Output

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         List<Integer>mylist=new ArrayList<Integer>();
7         mylist.add(1);
8         mylist.add(2);
9         mylist.add(3);
10        mylist.add(4);
11        mylist.add(5);
12        System.out.print(mylist);
13    }
14 }
```

```
java -cp /tmp/5J6Zfj8dSZ Main
[1, 2, 3, 4, 5]
```

