



```

1 package com.javapractice;
2
3 class primeexp extends Exception{
4
5 }
6 public class java2{
7     static boolean isPrime(int n)
8     {
9         if (n <= 1)
10             return false;
11         if (n <= 3)
12             return true;
13
14         if (n % 2 == 0 || n % 3 == 0)
15             return false;
16
17         for (int i = 5; i * i <= n; i = i + 6)
18             if (n % i == 0 || n % (i + 2) == 0)
19                 return false;
20
21         return true;
22     }
23     public static void main(String[] args)
24     {
25         for(int i=0;i<=100;i++)
26         {
27             try {
28                 if(isPrime(i))
29                 {
30                     throw new primeexp();
31                 }
32             }
33             catch(primeexp e)
34             {
35                 System.out.println(i+" "+"is PRIME!!");
36             }
37         }
38     }
39

```

<terminated> java2 [Java Application] C:\

```

2 is PRIME!!
3 is PRIME!!
5 is PRIME!!
7 is PRIME!!
11 is PRIME!!
13 is PRIME!!
17 is PRIME!!
19 is PRIME!!
23 is PRIME!!
29 is PRIME!!
31 is PRIME!!
37 is PRIME!!
41 is PRIME!!
43 is PRIME!!
47 is PRIME!!
53 is PRIME!!
59 is PRIME!!
61 is PRIME!!
67 is PRIME!!
71 is PRIME!!
73 is PRIME!!
79 is PRIME!!
83 is PRIME!!
89 is PRIME!!
97 is PRIME!!

```

```

package com.javapractice;

import java.util.*;

public class java6 {
    public static void main(String[] args) {
        System.out.print("Solving=> +-5+8*6 : ");
        System.out.println(+5+8*6);
        System.out.print("Solving=> ((55+9)%9) : ");
        System.out.println((55+9)%9);
        System.out.print("Solving=> 20+-3*5/8 : ");
        System.out.println(20+-3*5/8);
        System.out.print("Solving=> 5+15/3*2-8%3 : ");
        System.out.println(5+15/3*2-8%3);
    }
}

```

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^ <terminated> java6 [Java Application] C:\Progra
Solving=> +-5+8*6 : 43
Solving=> ((55+9)%9) : 1
Solving=> 20+-3*5/8 : 19
Solving=> 5+15/3*2-8%3 : 13

```

```
1 package com.javapractice;
2 import java.util.*;
3 public class java1 {
4
5     public static void main(String[] args)
6     {
7         Scanner s= new Scanner(System.in);
8         System.out.print("Enter the sentence: ");
9         String str = s.nextLine();
10        System.out.print("Enter string to be replcaed: ");
11        String s1=s.nextLine();
12        System.out.print("Enter string to be placed: ");
13        String s2=s.nextLine();
14        String new_str = str.replaceAll(s1, s2);
15        System.out.println();
16        System.out.println("Original string: " + str);
17        System.out.println("New String: " + new_str);
18    }
19
20 }
```

Markers Properties Servers Console

<terminated> java1 [Java Application] C:\Program Files\Java\jdk-15.0.2\bin\javaw.exe (Feb 25, 2021, 9:35:29 AM – 9:35)

Enter the sentence: The color is blue

Enter string to be replcaed: blue

Enter string to be placed: red

Original string: The color is blue

New String: The color is red

```
1 package com.javapractice;
2
3 import java.util.NavigableSet;
4 import java.util.TreeMap;
5
6 public class java2 {
7     public static void main(String[] args) {
8
9
10         TreeMap<Integer, String> treemap = new TreeMap<Integer, String>();
11         treemap.put(2, "two");
12         treemap.put(0, "zero");
13         treemap.put(3, "three");
14         treemap.put(6, "six");
15         treemap.put(9, "nine");
16         treemap.put(7, "seven");
17         NavigableSet set1 = treemap.descendingKeySet();
18
19         System.out.println("Navigable set values are: " + set1);
20     }
21 }
```

Markers Properties Servers Console

<terminated> java2 [Java Application] C:\Program Files\Java\jdk-15.0.2\bin\javaw.exe (Feb 25, 2021, 9:36:55 AM – 9:36:55 AM)  
Navigable set values are: [9, 7, 6, 3, 2, 0]

```

1 package com.javapractice;
2 import java.io.*;
3
4 class Demo implements java.io.Serializable
5 {
6     public int a;
7     public String b;
8     public int c;
9     public transient int x;
10    public transient String y;
11    public Demo(int a, String b,int c,int x,String y)
12    {
13        this.a = a;
14        this.b = b;
15        this.c = c;
16        this.x = x;
17        this.y = y;
18    }
19 }
20
21 class java1 {
22 {
23    public static void display(Demo obj)
24    {
25        System.out.println("a = " + obj.a);
26        System.out.println("b = " + obj.b);
27        System.out.println("c = " + obj.c);
28        System.out.println("x = " + obj.x);
29        System.out.println("y = " + obj.y);
30    }
31    public static void main(String[] args)
32    {
33        Demo object = new Demo(1, "hello",2,3,"world");
34        String filename = "file.ser";
35        try
36        {
37            FileOutputStream file = new FileOutputStream(filename);
38            ObjectOutputStream out = new ObjectOutputStream(file);
39            out.writeObject(object);

```

```

try
{
    FileOutputStream file = new FileOutputStream(filename);
    ObjectOutputStream out = new ObjectOutputStream(file);
    out.writeObject(object);
    out.close();
    file.close();
    display(object);
    System.out.println("Object has been serialized");
}
catch(IOException ex)
{
    System.out.println("IOException is caught");
}
Demo object1 = null;
try
{
    FileInputStream file = new FileInputStream(filename);
    ObjectInputStream in = new ObjectInputStream(file);
    object1 = (Demo)in.readObject();
    in.close();
    file.close();
    display(object1);
    System.out.println("Object has been deserialized ");
}

catch(IOException ex)
{
    System.out.println("IOException is caught");
}

catch(ClassNotFoundException ex)
{
    System.out.println("ClassNotFoundException is caught");
}

}
}

```

```
a = 1
b = hello
c = 2
x = 3
y = world
Object has been serialized
a = 1
b = hello
c = 2
x = 0
y = null
Object has been deserialized
```