



## **Introduction to Java**

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**ST4003CEM Object Oriented Programming**

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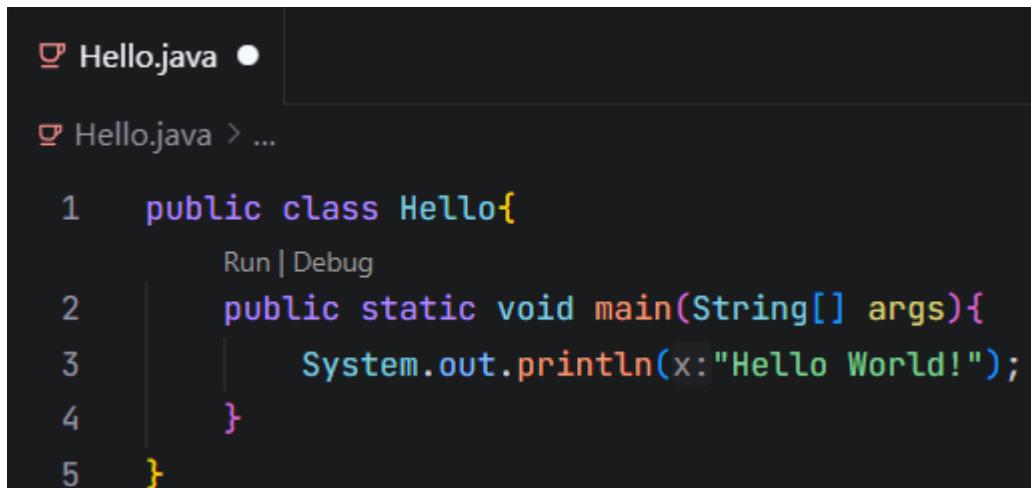
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# PRINTING HELLO WORLD

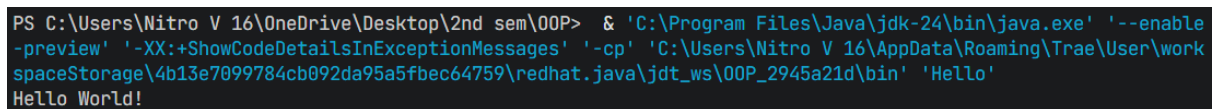
Source code:



A screenshot of an IDE window titled 'Hello.java'. The code is as follows:

```
1 public class Hello{
    Run | Debug
2     public static void main(String[] args){
3         System.out.println(x:"Hello World!");
4     }
5 }
```

Output:

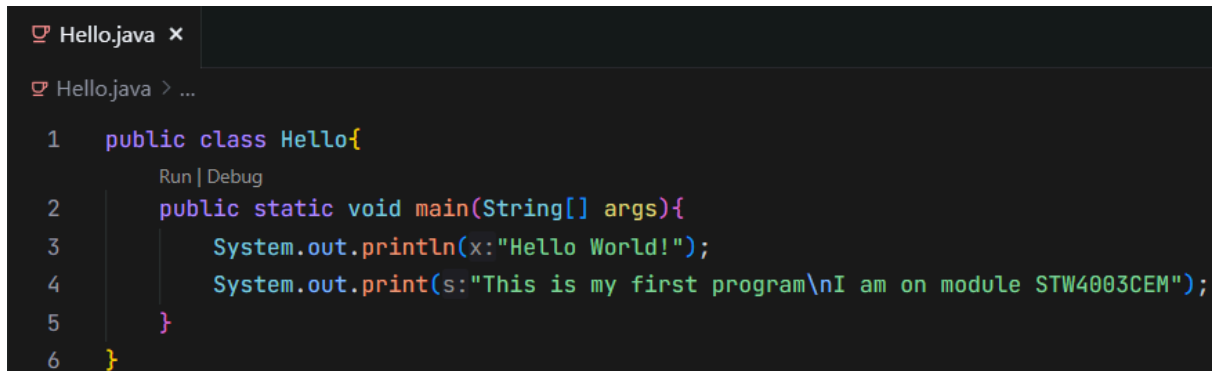


A screenshot of a terminal window showing the command to run the program and its output:

```
PS C:\Users\Nitro V 16\OneDrive\Desktop\2nd sem\00P> & 'C:\Program Files\Java\jdk-24\bin\java.exe' '--enable
-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Nitro V 16\AppData\Roaming\Trae\User\work
spaceStorage\4b13e7099784cb092da95a5fbec64759\redhat.java\jdt_ws\00P_2945a21d\bin' 'Hello'
Hello World!
```

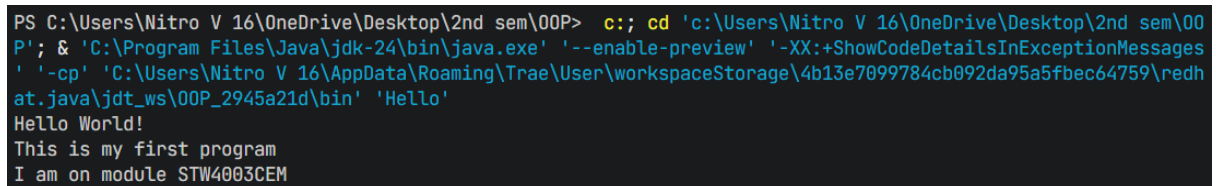
## EXTENDING THE ABOVE PROGRAM

Source code:



```
1 public class Hello{
2     public static void main(String[] args){
3         System.out.println(x:"Hello World!");
4         System.out.print(s:"This is my first program\nI am on module STW4003CEM");
5     }
6 }
```

Output:



```
PS C:\Users\Nitro V 16\OneDrive\Desktop\2nd sem\00P> c:: cd 'c:\Users\Nitro V 16\OneDrive\Desktop\2nd sem\00P'; & 'C:\Program Files\Java\jdk-24\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Nitro V 16\AppData\Roaming\Trae\User\workspaceStorage\4b13e7099784cb092da95a5fbec64759\redhat.java\jdt_ws\00P_2945a21d\bin' 'Hello'
Hello World!
This is my first program
I am on module STW4003CEM
```

## PRINTING THE FOLLOWING OUTPUT 1

Source code:

```
1  public class Hello{
    Run | Debug
2      public static void main(String[] args){
3          System.out.println(x:"A \"quoted\" String is");
4          System.out.println(x:\"'much\"' better if you learn");
5          System.out.println(x:"the rules of \"escape sequences.\"");
6          System.out.println(x:"Also, \"\" represents an empty");
7          System.out.println(x:"String. Don't forget: use \\\"");
8          System.out.println(x:"instead of \" !");
9          System.out.println(x:\"\" is not the same as \"");
10     }
11 }
```

Output:

```
PS C:\Users\Nitro V 16\OneDrive\Desktop\2nd sem\00P> & 'C:\Program Files\Java\jdk-24\bin\java.exe' '--enable
-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Nitro V 16\AppData\Roaming\Trae\User\work
spaceStorage\4b13e7099784cb092da95a5fbec64759\redhat.java\jdt_ws\00P_2945a21d\bin' 'Hello'
A "quoted" String is
'much' better if you learn
the rules of "escape sequences."
Also, "" represents an empty
String. Don't forget: use \"
instead of " !
" is not the same as "
```

# PRINTING PATTERN 1

Source code:

```
1  public class Hello{
    Run | Debug
2      public static void main(String[] args){
3          System.out.println(x: "*");
4          System.out.println(x: "**");
5          System.out.println(x: "***");
6          System.out.println(x: "****");
7          System.out.println(x: "*****");
8      }
9  }
```

Output:

```
PS C:\Users\Nitro V 16\OneDrive\Desktop\2nd sem\00P> & 'C:\Program Files\Java\jdk-24\bin\java.exe' '--enable
-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Nitro V 16\AppData\Roaming\Trae\User\work
spaceStorage\4b13e7099784cb092da95a5fbec64759\redhat.java\jdt_ws\00P_2945a21d\bin' 'Hello'
*
**
***
****
*****
```

## PRINTING PATTERN 2

Source code:

```
1  public class Hello{
    Run | Debug
2      public static void main(String[] args){
3          System.out.println(x: "*****");
4          System.out.println(x: "*****");
5          System.out.println(x: "*****");
6          System.out.println(x: "*****");
7          System.out.println(x: "*****");
8      }
9  }
```

Output:

```
PS C:\Users\Nitro V 16\OneDrive\Desktop\2nd sem\00P> & 'C:\Program Files\Java\jdk-24\bin\java.exe' '--enable
-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Nitro V 16\AppData\Roaming\Trae\User\work
spaceStorage\4b13e7099784cb092da95a5fbec64759\redhat.java\jdt_ws\00P_2945a21d\bin' 'Hello'
*****
*****
*****
*****
*****
```

## PRINTING THE FOLLOWING OUTPUT 2

Source code:

```
1 public class Hello{
    Run | Debug
2     public static void main(String[] args){
3         System.out.println(x:"A well-formed Java program has a main method with { and } braces.");
4         System.out.println(x:"");
5         System.out.println(x:"A System.out.println statement has ( and ) and usually a String that");
6         System.out.println(x:"starts and ends with a \" character.");
7         System.out.println(x:"What is the difference between");
8         System.out.println(x:"a \" and a \"? Or between a \" and a \"\"?");
9         System.out.println(x:"");
10        System.out.println(x:"One is what we see when we're typing our program. The other is what appears on");
11        System.out.println(x:"the \"console.\"");
12    }
13 }
```

Output:

```
PS C:\Users\Nitro V 16\OneDrive\Desktop\2nd sem\00P> & 'C:\Program Files\Java\jdk-24\bin\java.exe' '--enable
-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Nitro V 16\AppData\Roaming\Trae\User\work
spaceStorage\4b13e7099784cb092da95a5fbec64759\redhat.java\jdt_ws\00P_2945a21d\bin' 'Hello'
A well-formed Java program has a main method with { and } braces.

A System.out.println statement has ( and ) and usually a String that
starts and ends with a " character.
What is the difference between
a " and a "? Or between a " and a "\"?

One is what we see when we're typing our program. The other is what appears on
the "console."
```