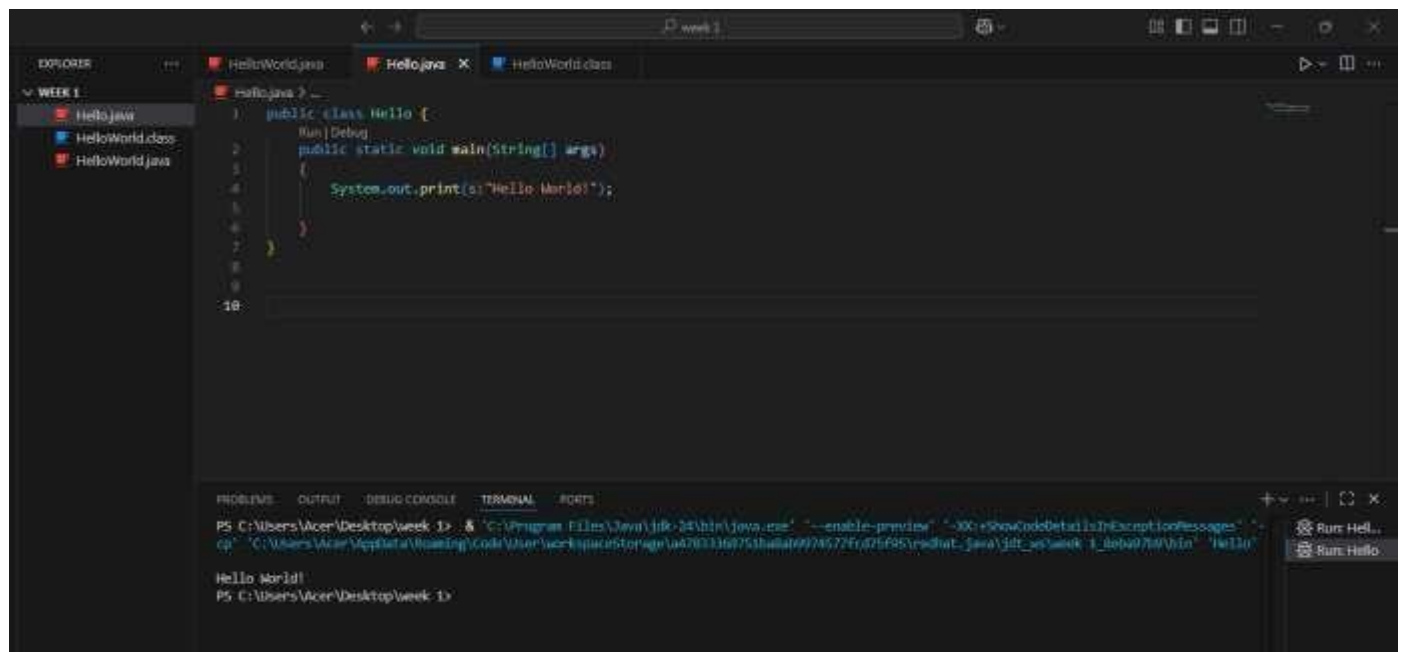


1. Write a program that prints **Hello World!** To the console.  
Save the program as Hello.java.



The screenshot shows an IDE window with a file explorer on the left, a code editor in the center, and a terminal at the bottom. The file explorer shows a project named 'WEEK 1' containing three files: 'Hello.java', 'HelloWorld.class', and 'HelloWorld.java'. The code editor displays the following Java code:

```
1 public class Hello {  
2     Run | Debug  
3     public static void main(String[] args)  
4     {  
5         System.out.print(s: "Hello World!");  
6     }  
7 }  
8  
9  
10
```

The terminal at the bottom shows the command prompt with the following output:

```
PS C:\Users\Acer\Desktop\week 1> .& "C:\Program Files\Java\jdk-24\bin\java.exe" --enable-preview --XX:+ShowCodeDetailsInExceptionMessages -cp "C:\Users\Acer\Desktop\week 1\src\HelloWorld.class" Hello  
Hello World!  
PS C:\Users\Acer\Desktop\week 1>
```

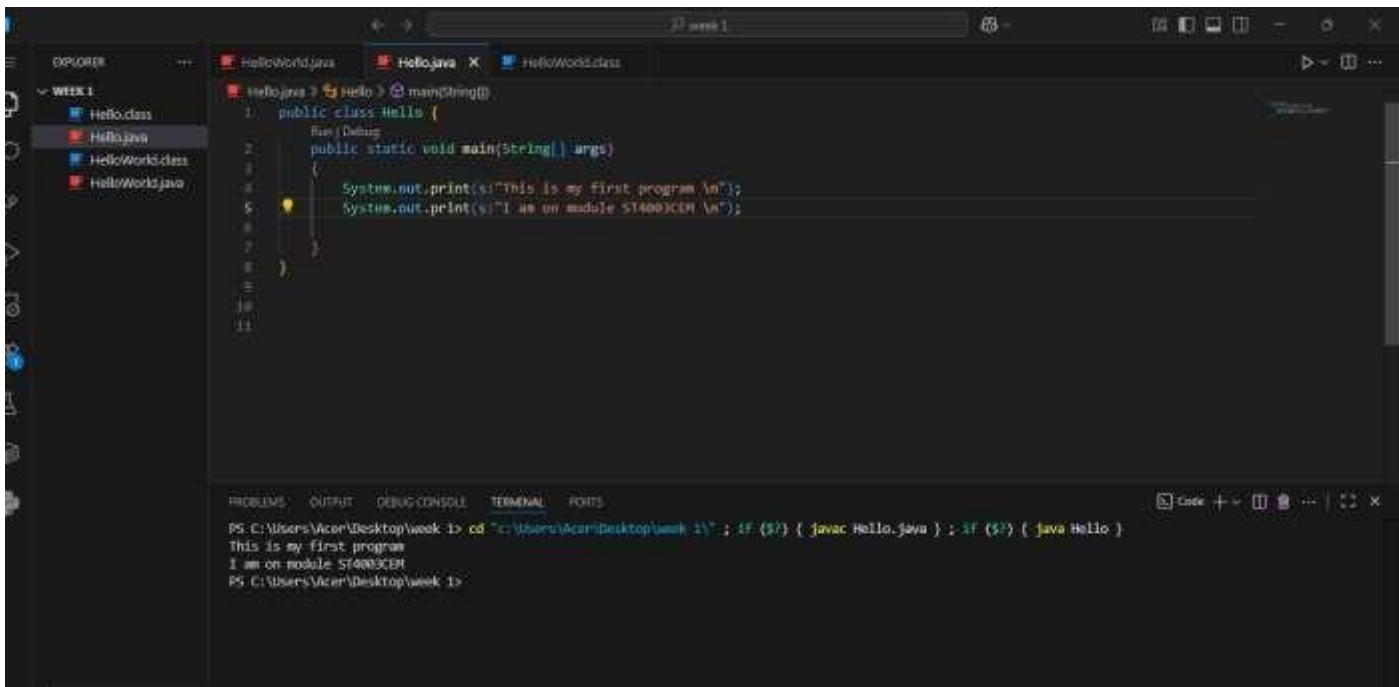
On the right side of the terminal, there are two buttons: 'Run Hell..' and 'Run Hello'.

2. Extend/Modify the above program to print two additional lines:

This is my first program

I am on module ST4003CEM

System.out.print (**not** println) and produces the same output.



The screenshot shows an IDE with a project named 'week 1'. The Explorer panel on the left shows files: 'Hello.class', 'Hello.java', 'HelloWorld.class', and 'HelloWorld.java'. The main editor displays the code for 'Hello.java':

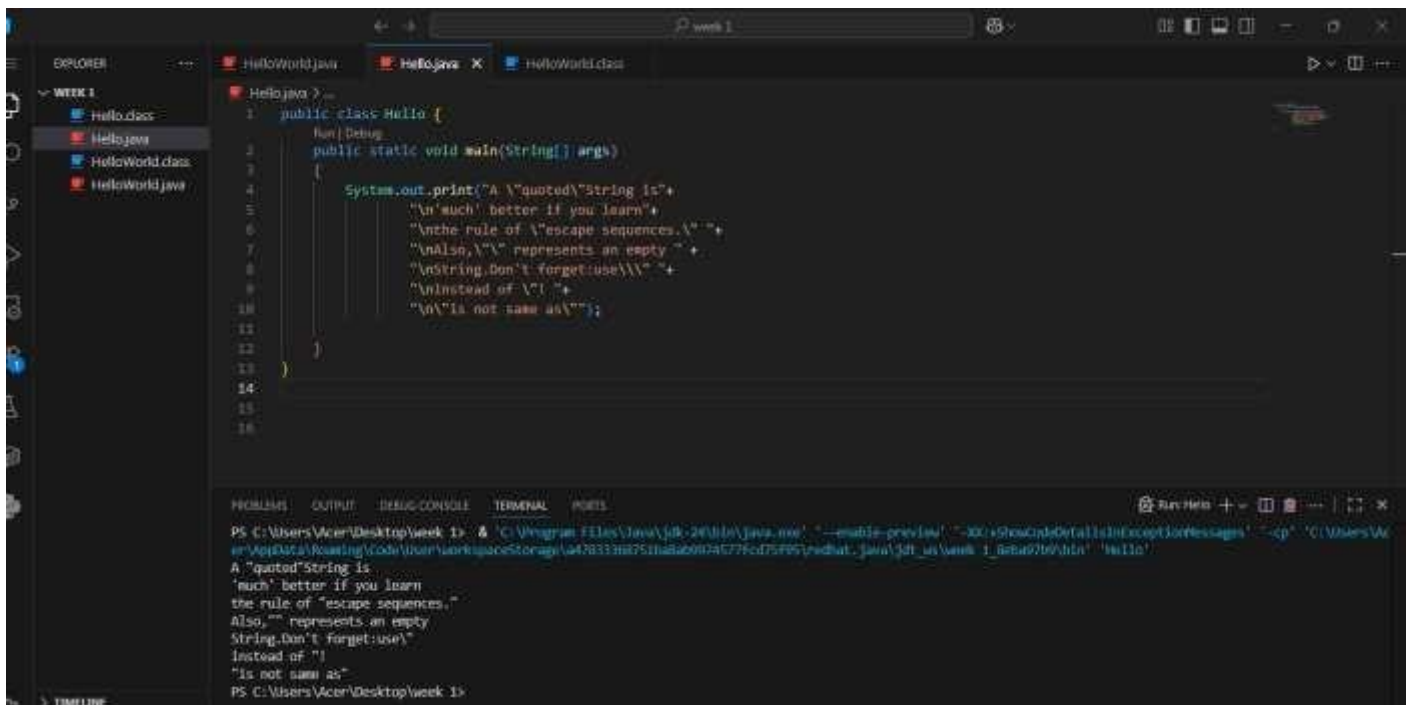
```
1: public class Hello {  
2:     public static void main(String[] args)  
3:     {  
4:         System.out.print("This is my first program \n");  
5:         System.out.print("I am on module ST4003CEM \n");  
6:     }  
7: }  
8:  
9:  
10:  
11:
```

The bottom panel shows the 'TERMINAL' output:

```
PS C:\Users\Acar\Desktop\week 1> cd "C:\Users\Acar\Desktop\week 1\" ; if ($?) { javac Hello.java } ; if ($?) { java Hello }  
This is my first program  
I am on module ST4003CEM  
PS C:\Users\Acar\Desktop\week 1>
```

3. Write a program that prints the following output:

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”



```
1 public class Hello {
2     public static void main(String[] args)
3     {
4         System.out.print("A \"quoted\"String is"+
5             "\n'much' better if you learn"+
6             "\nthe rule of \"escape sequences.\""+
7             "\nAlso,\"\" represents an empty "+
8             "\nString.Don't forget:use\\\\" +
9             "\ninstead of \"! "+
10            "\n\"is not same as\"");
11    }
12 }
13
14
15
16
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\Acer\Desktop\week 1> & "C:\Program Files\Java\jdk-20\bin\java.exe" --enable-preview "-XX:+ShowCodeDetailsInExceptionMessages" -cp "C:\Users\Acer\AppData\Local\Microsoft\Windows\WorkspaceStorage\44703338a751ba2a09074577fcd75f95\redhat\_java\jdk\_in\week\_1\_6ba92b9\bin" "Hello"

A "quoted"String is  
'much' better if you learn  
the rule of "escape sequences."  
Also,"" represents an empty  
String.Don't forget:use\  
Instead of "!  
"is not same as"

PS C:\Users\Acer\Desktop\week 1>

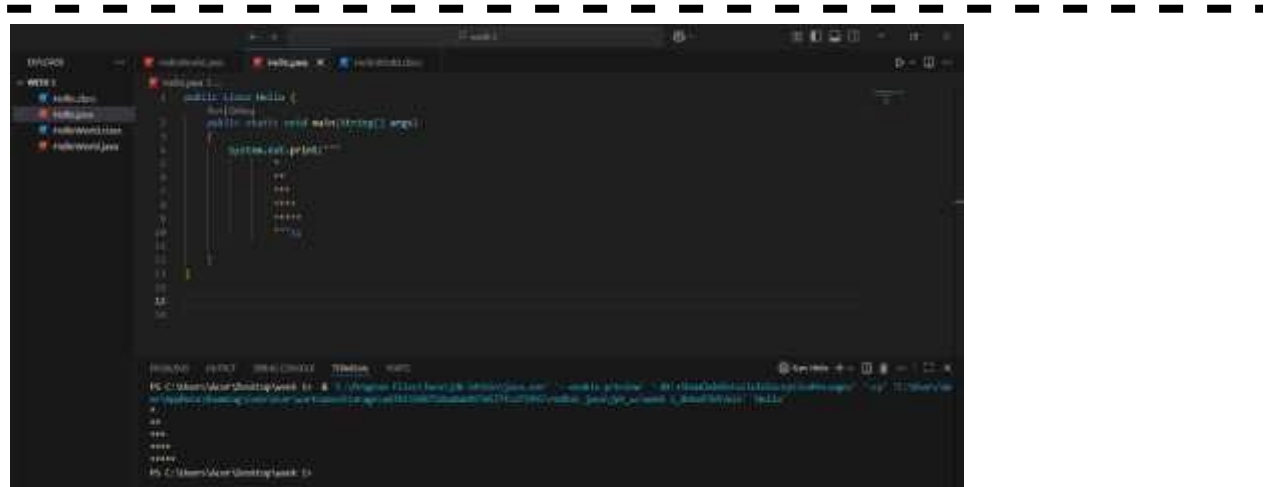
4. WAP that prints the following pattern:

\*

\*\*

\*\*\*

\*\*\*\*



5. WAP prints the following pattern:

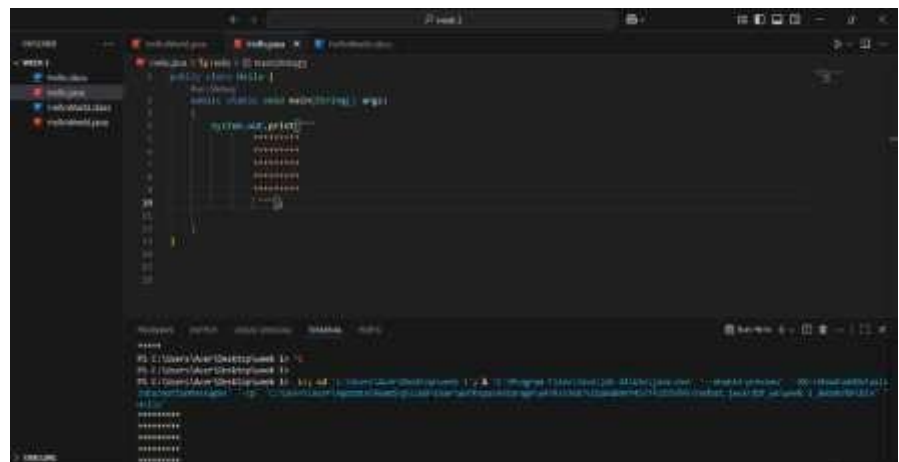
\*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

-----



6. WAP that prints the following output:

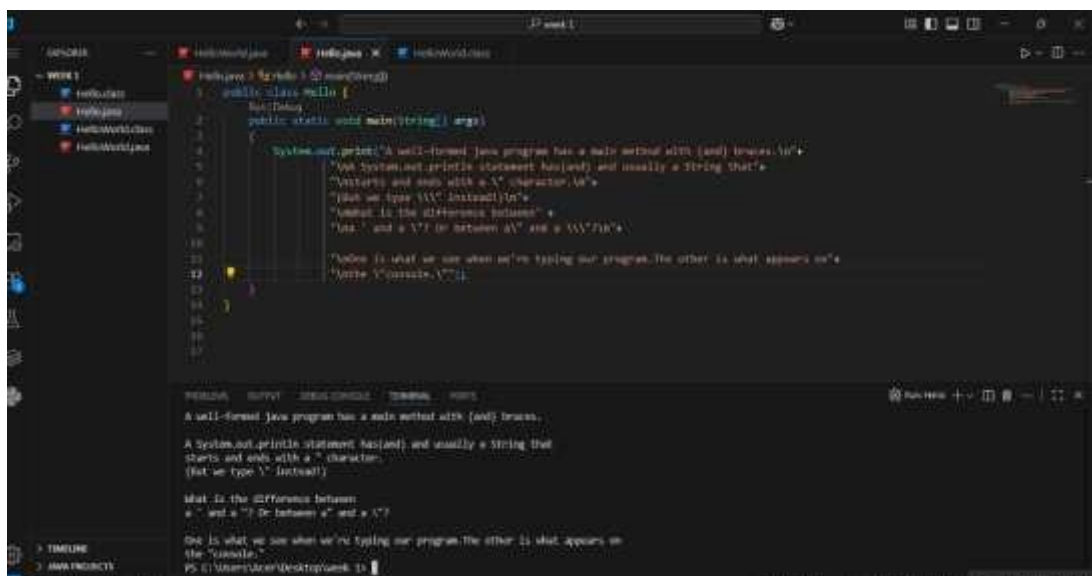
A well-formed Java program has  
a main method with {and}  
braces.

A System.out.println statement  
has (and) and usually a String  
that starts and ends with a  
“character.  
(But we type \" instead!)

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."



The screenshot shows an IDE with a Java file named `Hello.java`. The code defines a `main` method that prints several lines of text. The output is visible in the console at the bottom.

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

The console output is as follows:

```
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.  
(But we type \" instead!)  
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."  
PS C:\Users\user\Desktop> java -cp . Hello
```