Assignment Title:

Lesson 7: Task to Do

Coursework Type:

Individual

Module name:

ST4003CMD

Intake:

Submitted by: Submitted to:

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


```java
public class HelloWorld {
    Run | Debug
    public static void main(String[] args) {
        System.out.println(x:"Hello, World!");
    }
}
```

```
PS C:\Users\ASUS\OneDrive\Desktop\java week 1> cd "c:\Users\ASUS\OneDrive\Desktop\java week 1\" ; if ($?) { javac HelloWorld.java } ; if ($?
) { java HelloWorld }
Hello, World!\n
PS C:\Users\ASUS\OneDrive\Desktop\java week 1>
```

Fig:Printing Hello World

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.


```java
public class HelloWorld {
    Run | Debug
    public static void main(String[] args) {
        System.out.println(x:"This is my first program\n");
        System.out.println(x:"I am on module ST4003CEM\n");
    }
}
```

```
PS C:\Users\ASUS\OneDrive\Desktop\java week 1> cd "c:\Users\ASUS\OneDrive\Desktop\java week 1\" ; if ($?) { javac HelloWorld.java } ; if ($?
) { java HelloWorld }
This is my first program

I am on module ST4003CEM

PS C:\Users\ASUS\OneDrive\Desktop\java week 1>
```

Fig: Given program in two additional lines

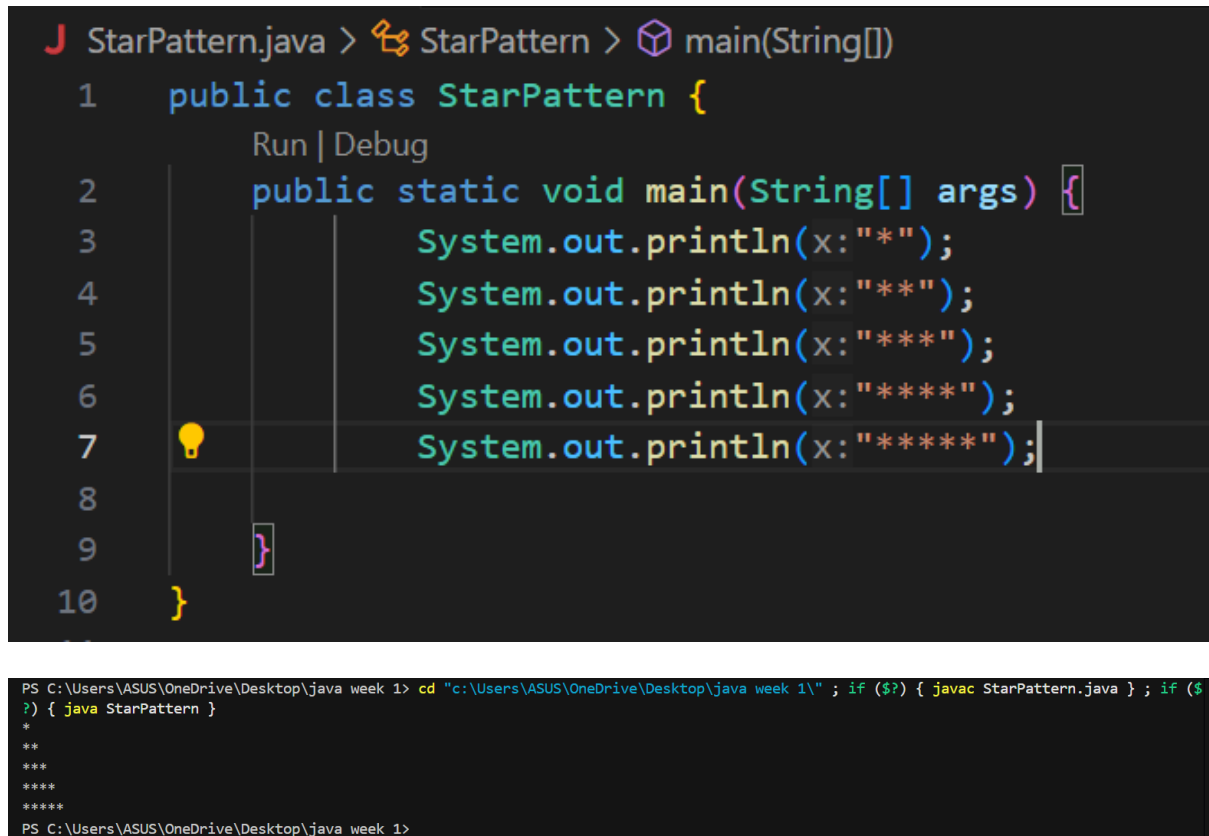3. Write a program that prints the following output:
A "quoted" String is
'much' better if you learn
the rules of "escape sequences."
Also, "" represents an empty
String. Don't forget: use \"
instead of " !
" is not the same as "

```java
public class HelloWorld {
    Run | Debug
    public static void main(String[] args) {
        System.out.println(x:"A \"quoted\" String is");
        System.out.println(x:"'much' better if you learn");
        System.out.println(x:"the rules of \"escape sequences\"");
        System.out.println(x:"Also,\"\" represents an empty");
        System.out.println(x:"String. Don't forget:use\\\"");
        System.out.println(x:"Instead of \" !");
        System.out.println(x:"is not the same as \"");
    }
}
```

```
PS C:\Users\ASUS\OneDrive\Desktop\java week 1> cd "c:\Users\ASUS\OneDrive\Desktop\java week 1\" ; if ($?) { javac HelloWorld.java } ; if ($?
) { java HelloWorld }
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 "
PS C:\Users\ASUS\OneDrive\Desktop\java week 1>
```

Fig:Printing the given data

4. WAP that prints the following pattern:

```
*
**
***
****
*****
```

```
J StarPattern.java > StarPattern > main(String[])
  1    public class StarPattern {
           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        }
 10    }
```

```
PS C:\Users\ASUS\OneDrive\Desktop\java week 1> cd "c:\Users\ASUS\OneDrive\Desktop\java week 1\" ; if ($?) { javac StarPattern.java } ; if ($
?) { java StarPattern }
*
**
***
****
*****
PS C:\Users\ASUS\OneDrive\Desktop\java week 1>
```

Fig:Print the following pattern

5. WAP prints the following pattern:

```
*********
*********
*********
*********
*********
```

```java
public class StarPattern {
    public static void main(String[] args) {
        System.out.println(x:"*********");
        System.out.println(x:"*********");
        System.out.println(x:"*********");
        System.out.println(x:"*********");
        System.out.println(x:"*********");
    }
}
```

```
PS C:\Users\ASUS\OneDrive\Desktop\java week 1> cd "c:\Users\ASUS\OneDrive\Desktop\java week 1\" ; if ($?) { javac StarPattern.java } ; if ($
?) { java StarPattern }
*********
*********
*********
*********
*********
PS C:\Users\ASUS\OneDrive\Desktop\java week 1>
```

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."

```java
J StarPattern.java > ...
  1   public class StarPattern {
          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:"A System.out.println statement has ( and ) and usually a String that starts and ends with a \" character.");
  5           System.out.println(x:"(But we type \\\" instead!)");
  6           System.out.println(x:"What is the difference between");
  7           System.out.println(x:"a ' and a \"?  Or between a \" and a \\\"?");
  8           System.out.println(x:"One is what we see when we're typing our program. The other is what appears on the");
  9           System.out.println(x:"\"console.\"");
 10       }
 11   }
 12
```

```
PS C:\Users\ASUS\OneDrive\Desktop\java week 1> cd "c:\Users\ASUS\OneDrive\Desktop\java week 1\" ; if ($?) { javac StarPattern.java } ; if ($?) { java StarPattern }
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\ASUS\OneDrive\Desktop\java week 1>
```