

‘Short Concept’ Exercises

EBU4201 Teaching Week 1: 2018/19

Fill in the Gaps

- Consider the **incomplete Java program StarsTriangle**; it displays the pattern below, when it is compiled and run.
- Your challenge is to use the collection of statements on the far right, together with some extra right brackets (`}`), to complete the program **StarsTriangle**.

```
public class StarsTriangle {  
    public static void main(String[] args) {  
        // code missing  
    }  
}
```

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

```
col = col + 1;  
int col = 0;  
int row = 0;  
int size = 8;  
row = row + 1;  
row = 0;  
System.out.print('*');  
System.out.println('*');  
System.out.println();  
while (col <= row) {  
    while (col < row) {  
        while (row < size) {  
            while (row <= size) {  
                col = 0;
```



Predict the Question

- **Determine the question** that should result in the following possible answers:

Answer 1

“This happens when a class has multiple methods with the same name but different lists of parameters. It helps ensure consistency when naming methods.”

Answer 2

“Methods in the same class that share the same name but accept different variable types as arguments. Such methods give programmers the flexibility to call a similar method with different types of data.”