

**CAN WE PLACE ANY STATEMENTS EXACTLY
BELOW BREAK; AND CONTINUE;?**

Assignment: 8

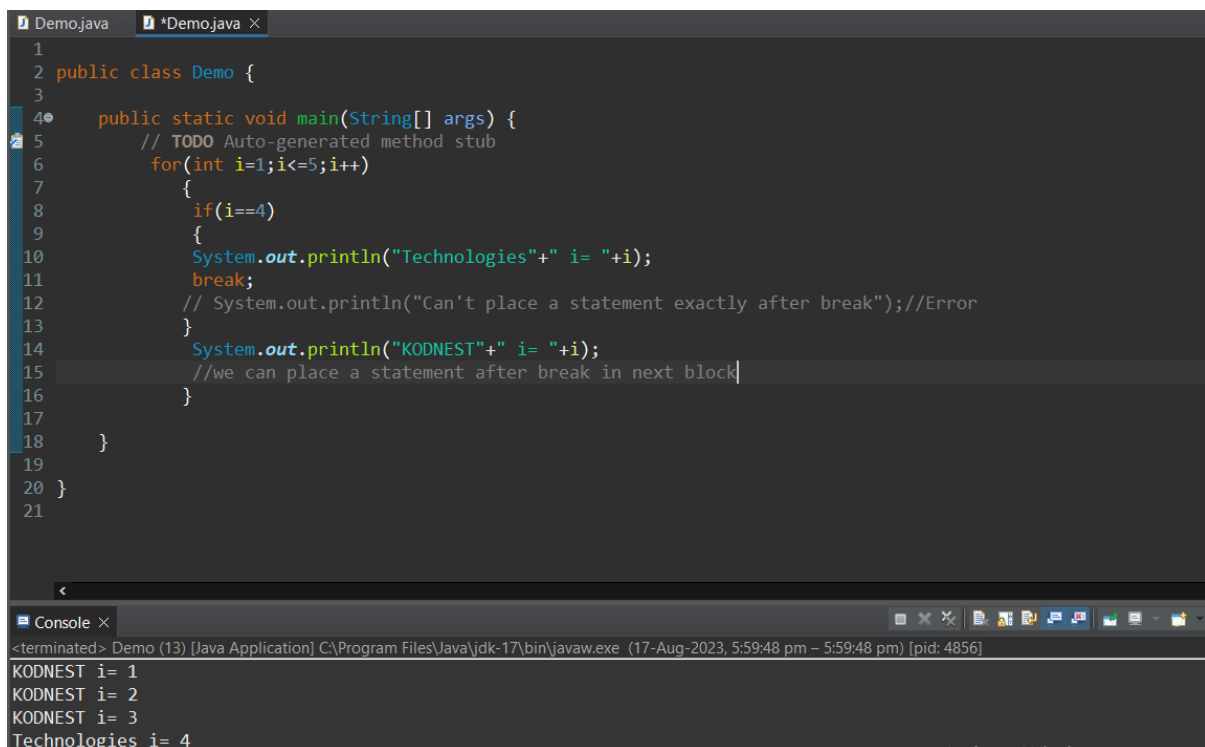
Date: 17-08-2023

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BREAK;

In Java, the `break;` statement is used to exit from loops and switch statements. The code immediately following the `break;` statement within the loop or switch block will not be executed. Instead, this will give us error as “UNREACHABLE CODE”. As the control can never reach or execute this statement. But, we can place a statement after `break;` in the next block.



The screenshot shows an IDE with a Java file named `Demo.java`. The code is as follows:

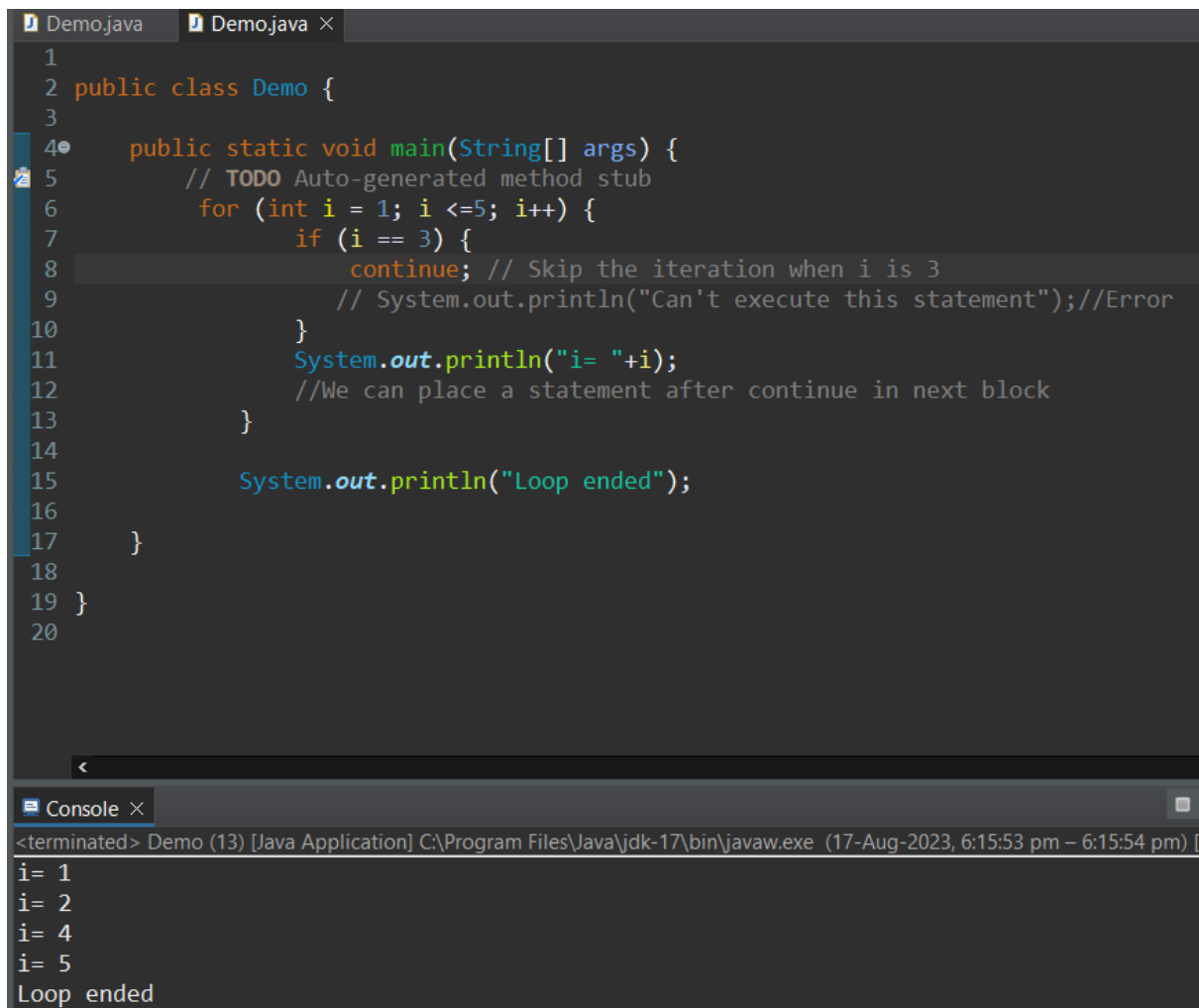
```
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         for(int i=1;i<=5;i++)
7         {
8             if(i==4)
9             {
10                System.out.println("Technologies"+" i= "+i);
11                break;
12                // System.out.println("Can't place a statement exactly after break");//Error
13            }
14            System.out.println("KODNEST"+" i= "+i);
15            //we can place a statement after break in next block
16        }
17    }
18 }
19
20 }
21
```

The console output at the bottom shows the execution results:

```
<terminated> Demo (13) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (17-Aug-2023, 5:59:48 pm - 5:59:48 pm) [pid: 4856]
KODNEST i= 1
KODNEST i= 2
KODNEST i= 3
Technologies i= 4
```

CONTINUE;

In Java, the `continue;` statement is used to skip the remaining code inside the loop for the current iteration and move on to the next iteration. If we try to place a statement below `continue;` this will give us error as “UNREACHABLE CODE”. As the control can never reach or execute this statement. But, we can place a statement after `break;` in the next block.



```
1
2 public class Demo {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         for (int i = 1; i <=5; i++) {
7             if (i == 3) {
8                 continue; // Skip the iteration when i is 3
9                 // System.out.println("Can't execute this statement");//Error
10            }
11            System.out.println("i= "+i);
12            //We can place a statement after continue in next block
13        }
14
15        System.out.println("Loop ended");
16
17    }
18
19 }
20
```

<

Console ×

<terminated> Demo (13) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (17-Aug-2023, 6:15:53 pm – 6:15:54 pm) [

i= 1
i= 2
i= 4
i= 5
Loop ended