*// Programming 1*

*// main.cpp*

*// COSC - 1336*

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*// Description: Module 3 Learning Outcome - Loops*

#include <iostream>

using namespace std**;**

*int* main() {

*int* numOne **=** 0**;**

*int* numTwo **=** 0**;**

*// #1. Looping #######*

*// \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

*// \*\*\* while loop \*\*\**

*// \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

cout **<<** " while loop: " **<<** endl**;**

**while** (numOne **<** 10)

{

    numOne**++;**

    cout **<<** numOne **<<** endl**;**

}

cout **<<** endl**;**

*// \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

*// \*\*\* Do While loop \*\*\**

*// \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

cout **<<** " do while loop: " **<<** endl**;**

**do**

{

    cout **<<** numTwo **<<** endl**;**

    numTwo**++;**

} **while** (numTwo **<=** 10)**;**

*// \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

*// \*\*\* For loop \*\*\**

*// \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

cout **<<** endl**;**

cout **<<** " for loop: " **<<** endl**;**

**for** (*int* i **=** 0**;** i **<=** 10**;** i**++**)

{

    cout **<<** i **<<** endl**;**

}

*// # 2. What is the output of this Loop? ###########*

cout **<<** endl**;**

cout **<<** "For Loop that outputs numbers not divisible by 3 or 5: " **<<** endl**;**

**for** (*int* i **=** 1**;** i **<=** 20**;** **++**i)

{

**if** (i **%** 3 **!=** 0 **&&** i **%** 5 **!=** 0)

    {

       cout **<<** i **<<** endl**;**

     }

}

*// This for loop outputs the numbers that are not divisible by 3 or 5*

*// # 3. Change the above code to output the on the same line with commas.*

cout **<<** endl**;**

cout **<<** "For Loop to output on the same line with commas: " **<<** endl**;**

**for** (*int* i **=** 1**;** i **<=** 20**;** **++**i)

{

**if** (i **%** 3 **!=** 0 **&&** i **%** 5 **!=** 0)

    {

       cout **<<** i **<<** ", "**;** *// take out endl, and put ", ";*

     }

}

**return** 0**;**

}

*// # 4. Create Pseudo-Code #######*

*// initialize an integer input variable = to -1 \* i.e numOne \*\*\**

*// initialize an empty integer variable to store the variable input by the user \*\*\* i.e numTwo \*\*\**

*// write a sentinel-controlled loop that will execute its body if the input variable is not equal to 0*

*// in the loop body output the prompt for the user to enter a positive integer*

*// assign the integer to the 1st input variable*

*// insert if logic that states, if numOne is greater than num Two*

*// cout numOne*

*// assign the numOne to numTwo which will later compare variables and return the highest integer.*

*// else*

*//cout numTwo*

*// end of loop*

*// "Exiting application... Good bye!"*

*// return 0;*