**Topic 3: do-while Loop**

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**Content**

**Reading**

[Reading](https://dmacc.blackboard.com/webapps/blackboard/content/listContent.jsp?course_id=_102593_1&content_id=_7286879_1)

Input and Output (I/O)

* + Microsoft:docs.microsoft.com
    - [do](https://docs.microsoft.com/en-us/dotnet/csharp/language-reference/keywords/do)
  + GeeksForGeeks: geeksforgeeks.com
    - [loops](https://www.geeksforgeeks.org/loops-in-c-sharp/)
  + TutorialsPoint: tutorialspoint.com
    - [do-while](https://www.tutorialspoint.com/csharp/csharp_do_while_loop.htm)
  + W3Schools: w3schools.com
    - [do-while](https://www.w3schools.com/cs/cs_while_loop.asp)

**do-while loop**

[do-while loop](https://dmacc.blackboard.com/webapps/blackboard/content/listContent.jsp?course_id=_102593_1&content_id=_7286879_1)

The do-while loop causes a statement(s) to be executed at least once and continues as long as the Boolean expression is true.

* + With one statement
  + do
  + statement;
  + while (BooleanExpression);
  + With multiple statements
  + do
  + {
  + statement1;
  + statement2;
  + ...
  + } while (BooleanExpression);
  + With one statement including curly braces { }
  + do
  + {
  + statement;
  + } while (BooleanExpression);

It is always best to use curly braces { }even with one statement. It lends to readable code, as well as avoids errors if you (or a team mate) refactor(s) the code and adds more statements in the do while loop.Déjà vu again! You may have heard this before, *while* you might not be sure where, *if* you review previous topics, you might find it, *for* sure.

**Add y/n to continue**

[Add y/n to continue](https://dmacc.blackboard.com/webapps/blackboard/content/listContent.jsp?course_id=_102593_1&content_id=_7286879_1)

In your console app, you can ask the user if they would like to continue with a do while:

Add your code inside the following:

do

{

// your

// code

// here

Console.WriteLine("Would you like to continue? y/n");

} while (Console.ReadKey().Key != ConsoleKey.N);

[**Validate Input do-while loop**](https://dmacc.blackboard.com/webapps/assignment/uploadAssignment?content_id=_7286899_1&course_id=_102593_1&group_id=&mode=view)

Create a Console App that uses a do-while loop to validate input for a business logic rule.

You use a do while to do something while a condition is true, it will occur at least once. You can loop until a user gives input in the correct format.  Another way to think of it is, while the user input is not a number (review Module 2 Topic 3 for checking for numeric input) or is not the correct range, ask the user for more input.

* + Declare a variable for storing user input
  + Declare a variable for storing if input is invalid
  + do
  + {
  + // Prompt the user for a number between 7 and 32
  + // Get the input
  + // Test if input is invalid and (update loop condition variable or prompt user that input is incorrect)
  + } while ( input is invalid )
  + // Output message with valid input
  + ​

Submit your Program.cs file with the Academic Honesty Header included.

This is 10 points.