**Final Exam – Dec 2020**

**PROG1781**

**[30 marks]**

~~Use~~ **~~Visual Studio~~** ~~to generate a~~ **~~C# Console project~~** ~~and call it~~ **~~yourFIrstNameLastName~~**~~. Ie if your name is Bill Smith “BillSmith”.~~

*~~Before beginning to create your program, you are advised to read the entire question – plan your solution first.~~*

1. ~~[1 mark] - Documentation is required to explain ALL your code, and what the code is answering.~~
2. ~~[1 mark] Following all Conestoga IT Standards.~~

~~for example:~~

~~//get user input~~

~~//Remove all the punctuation from the string entered”~~

1. ~~[1 mark] Write your full name and ID in comments at the top of your code.~~

*QUESTION DETAILS*

* 1. ~~[4 marks] -Create a class with a name of “~~**~~utility”~~**~~, within the class generate a method called~~ **~~StringOperations~~** ~~that accepts and evaluates a string.~~
  2. ~~[2 marks] – constructors created.~~

~~The method called~~ **~~StringOperations~~** ~~must be able to:~~

* 1. ~~[3 marks] - Find and remove the following characters “#” and “!” from the string~~
  2. ~~[2 mark] -~~ **~~return~~** ~~the string without “#” and “!”.~~

**In the Main Program:**

* 1. ~~[1 mark]-Request the string from the user~~
  2. [2 marks]-Confirm a value was entered, before continuing.   
     Pass this string as the user’s example when testing within your program   
     (The user will enter this): “21!,#July2,A,01#, 12/7/2019, #27 What!,, 7,00#I am."
  3. ~~[1 marks] If nothing entered, Display “Error Message” and repeat.~~
  4. ~~[2 marks]-Call the class method (~~**~~StringOperations~~**~~) from your main program passing the example string (from b), store the result to a variable of your choice~~.

1. Display String after modification
   1. ~~[1 mark] - Display the returned modified string on the screen.~~
   2. ~~[3 marks]- Copy the returned entry, from the value returned (in step 2a above), to a string array using the “,” found in the string as the delimiter.~~
   3. ~~[2 marks]-Use a for loop to display the entries in the array that are not digits   
      (i.e. numbers between 0&9).~~
   4. ~~[3 marks], Ask user to repeat with another string or end the program.~~

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UPLOAD REQUIREMENTS**

* When you have finished, do the following: [1 mark]
  1. Zip the entire project folder.
     + Do **NOT** use WinRAR ONLY WinZip will be accepted/graded

1. If your program compiles -Take a screen shot (print screen) of the output of the example shown, paste into word and save. **Names as screenshot.**
2. Upload the zipped files (step 1 above) and the unzipped files separately (step 2) to the folder titled **Final** under “Assignments” on the class portal. Total of 2 files uploaded.

* If you have not finished the entire exam still submit the completed sections in the formats as indicated in steps 1,2,3 above.
* DOUBLE CHECK before logging off that you have uploaded everything that was asked.