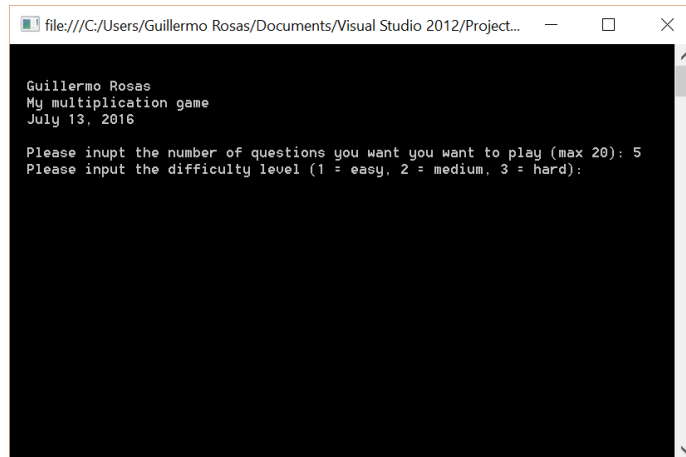


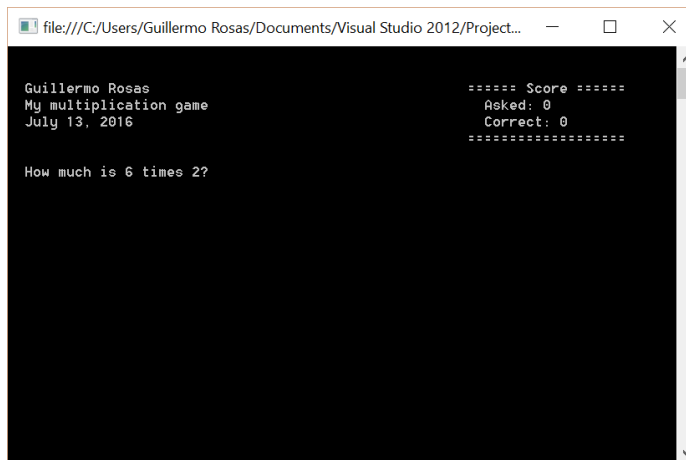
- iii. If the user input is valid, prompt the user to select a difficulty level (1 = easy, 2 = medium, 3 = hard). Verify the user input is a numeric value, and verify the user input is 1, 2, or 3 only. If the user inputs erroneous data, display an error and prompt the user to input a difficulty level.



```
file:///C:/Users/Guillermo Rosas/Documents/Visual Studio 2012/Project...  
Guillermo Rosas  
My multiplication game  
July 13, 2016  
  
Please input the number of questions you want you want to play (max 20): 5  
Please input the difficulty level (1 = easy, 2 = medium, 3 = hard):
```

Figure 2

- iv. Clear the screen and display your heading again, with your game title. Also, display a “scoreboard” in the upper right hand corner of the console window. This may take a little research to figure out how to do this.



```
file:///C:/Users/Guillermo Rosas/Documents/Visual Studio 2012/Project...  
Guillermo Rosas  
My multiplication game  
July 13, 2016  
  
How much is 6 times 2?  
  
===== Score =====  
Asked: 0  
Correct: 0  
=====
```

Figure 3

- v. Prompt the user to provide an answer to each multiplication problem. Each problem should appear on a new screen. Each screen should display your custom heading and the scoreboard as shown in Figure 3 (above). The scoreboard should update after each question is answers to reflect the number of questions asked and the number of questions answered correctly. User input must be a number only. If the user inputs a value other than a number, display a message and prompt the user to input a correct value.
 - 1. For each level of difficulty, use the random number generator to generate two numbers to multiply together:

- a. For the “easy” gameplay, multiple single digits greater than zero together only (e.g., 1 – 9)
 - b. For the “medium” gameplay, each digit may be between 1 and 99.
 - c. For the “hard” gameplay, each digit may be between 1 and 1000.
- vi. Each time a user answers a problem, provide feedback and update the scoreboard as shown in Figure 4.

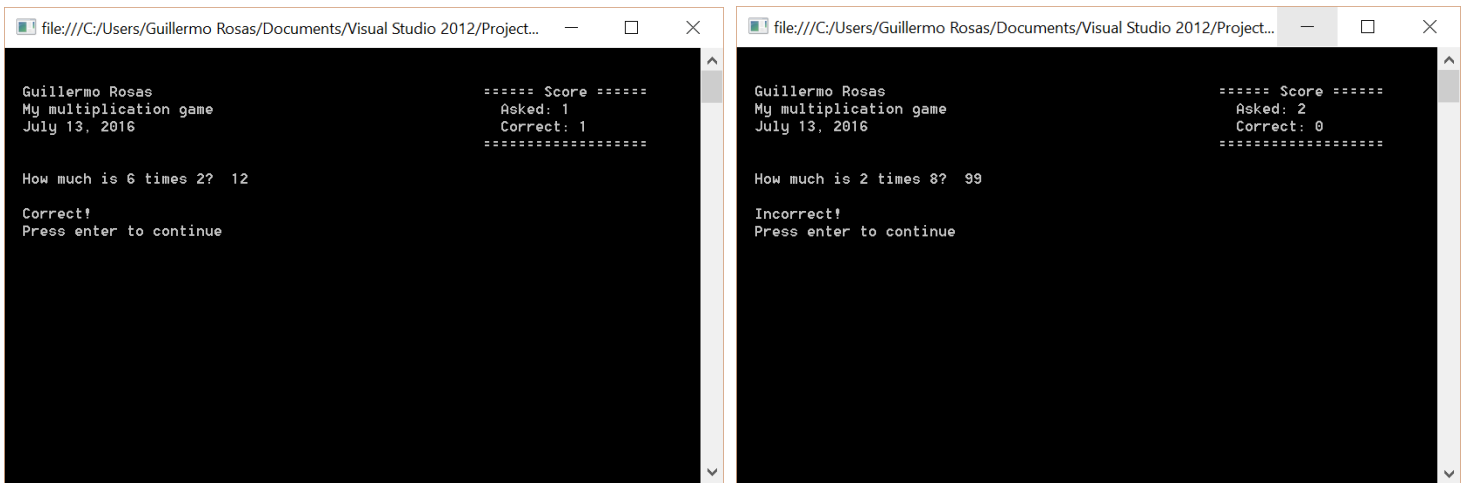


Figure 4

- vii. The application should present the same number of problems the user chose to play in step 1aii. Once complete, display your custom heading with your application name. Make sure the scoreboard has been removed from the screen, then display a final score message. An example is shown below in Figure 5.

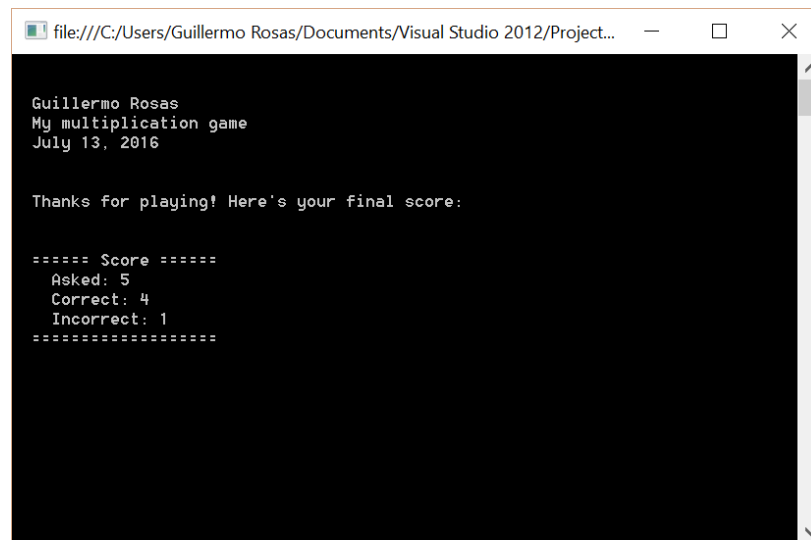


Figure 5

OTHER NOTES

- This assignment is a bit free form; however, you must use an *enum* and a *switch* statement (sorry Todd) to determine how to generate numbers based on the chosen user level.
- Formatting is largely up to you; however, all output must be two spaces from the left, to align with the header.
- This is a bullet is just the requisite to make David Ream feel comfortable with the assignment.
- A sample application has been provided for you with the assignment. Reference the sample application to see how your application should work (note: there might be a bug in the score tracking – I’m writing this on the run – sorry! – but your solution should track the score correctly ;-)).
- This application was written on the run – there might be typos or conflicting instructions. If something doesn’t make sense, email me ASAP – thanks!
- Avoid code repetition. If you find you’re repeating code, write functions. Keep in mind, if you’re writing functions in your main program class, because your main function is a static function, all functions within that class will also have to be static (this will not affect the Person class). Here are some examples of how you can write a static function that returns no value, and a static function that returns a string:

```
static void MyFunction() {  
    //Body here  
}  
  
static string MyOtherFunction() {  
    //Body here  
}
```

COMPLETION

- When complete, please ZIP the entire solution into a single file named **LastName_6.zip** (where *LastName* is your own last name).
- Upload and submit the ZIP file to the Assignment 6 drop box in Blackboard.

Fin.

