Programming Techniques

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| **Level of challenge** | **Task/Challenge** | **Your Answer** | **Extend Further** |
|  | **What does this short program do:**   1. string name = “ ”; 2. Console.WriteLine(“What is your name”); 3. Name = Console.Readline(); 4. Console.WriteLine(“Hello ” + name); | Asks for your name then outputs hello “input” | |
|  | **Describe** the purpose of:  (What is/what are?)   1. String 2. Integer/int 3. Character/char 4. Real/Decimal/double 5. Boolean/bool |  | **What is the most appropriate datatype for each of the following:**   1. 45 2. Dave 3. M 4. F 5. 52.23 6. true |
|  | **Write some instructions to ask the user enter 2 numbers, adds the, together and displays the output** |  | **Explain your data type choices you made in the task above:**   1. 45 2. Dave 3. M 4. F 5. 52.23 6. true |

**Answer the following questions when you have completed the programming guide (When you have completed the Bronze requirements)**

1. **Run the Guess the Word program. What do you think is the purpose of this program?**

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1. **What does the program do? What do you think need finishing?**

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| What works? | What doesn’t work/Needs finishing? |
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1. **The Guess the word program has 2 global variables at the beginning**

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| What is a global variable? |  |
| What is the purpose of:  public static string[] wordBank = new string[5]; |  |
| What is the purpose of:  public static string currentWord = ""; |  |

1. **The program has been broken down into 5 sections using procedures/functions. Describe the purpose of** **each function/procedure and sate whether it is a function or a procedure**

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| **Section name** | **Purpose** | **Procedure/Function/Main program** |
| Main |  |  |
| SetWordBank |  |  |
| SelectWord |  |  |
| DisplayWord |  |  |
| GuessLetter |  |  |

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| What is a procedure? |  |
| What is a function? |  |
| Why are procedures and functions useful? |  |