**Jacob. S. Lummis**

**SID: 2213276**

MOD008365 – Introduction to programming

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# Introduction

# User Guide

# Test Plan:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **TEST** | **DESCRIPTION OF TASKS** | **STEPS TO EXECUTE** | **EXPECTED RESULTS** | **PASS** | **FAIL** | **DEFECT / COMMENTS / ADDITIONS** |
| **APPLICATION 1:** | |  |  |  |  |  |
| 1 | Does the Program Start? | Perform “Run & Debug” from within VS Code | Console Window Opens, displaying start screen. |  |  | Pressing the Escape key (Esc) will progress the program directly to the exit screen, where any keypress will close the console window. |
| 2 | Will the Program Progress to a “Shift”? | Press the Enter key | Console displays “Shift” Screen, the “Vehicle Queue” and “Vehicle Pool” being to fill up. |  |  | For this limited scope demonstration, only 81 vehicles are generated in total. |
| 3 | Does Pump Assignment Work? | Press any of the number keys, from 1 to 9 | If the Vehicle Queue has at least 1 car in it, it will be assigned to the corresponding pump, which will switch from “OPEN” to “BUSY” |  |  | After 8 seconds from the pump becoming “BUSY”, it will switch back to “OPEN” and the vehicles serviced and fuel dispensed counters will increase. |
| 4 | Can you exit program at any point? | Press the Escape (Esc) key | Program will go to exit screen, where any keypress will close the console window |  |  |  |

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| **GENERAL QUESTIONS / COMMENTS** | |
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# Bibliography:

Many thanks are given to the editor(s) and contributors of the learn.microsoft.com site, for their copious if sometimes opaque examples and explanations.

I mainly frequented the C# and .Net documentation, with this link as an initial starting point: [C# docs - get started, tutorials, reference. | Microsoft Learn](https://learn.microsoft.com/en-us/dotnet/csharp/).

Additional thanks are given to my Father, my course lecturer, and my module/course-mates, for the support, patience and brainstorming opportunities & sanity checks they provided when writing my code for this Assignment.