Unit 6

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IT481 Advanced Software Development

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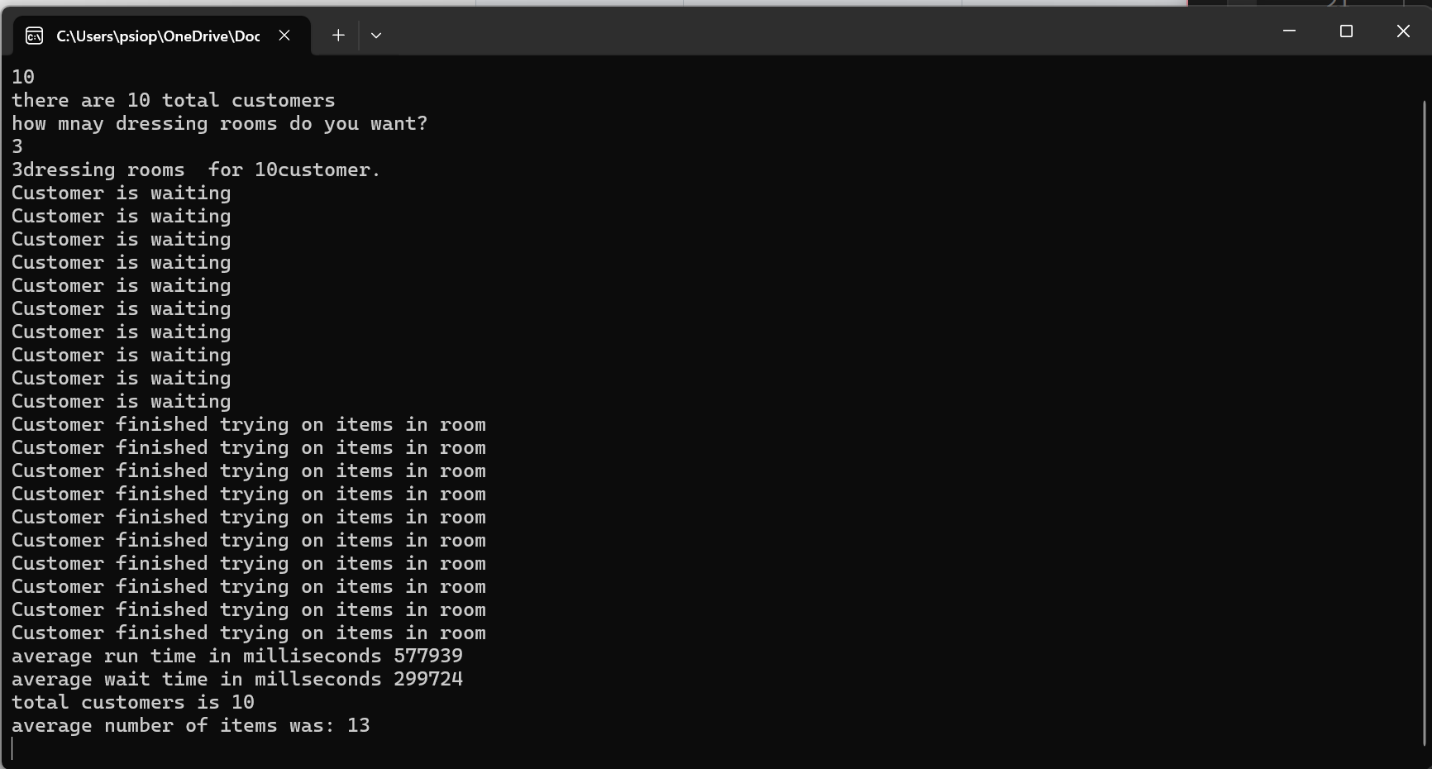
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With the running of the program, the input runs as expected asking for inputs and showing outputs. This started off by asking me how many customers I wanted, which I input 5 and 2 for the next question of how many dressing rooms. The next step was to check customers and if rooms were available. The final step counts the number of items and the time taken.

The first part takes place in breaking it which was easy as it has no defenses against easy moves like inputting zero customers. This action caused the program to pull into the source code to give an alert that were attempting to divide by 0. This of course is an impossible action that even the program can determine as impossible. Currently there is no consideration to create a defense against tricks like that. Doing the same for dressing rooms will cause an error requiring positive numbers.

Using large numbers runs just fine without error. For what is needed the program works if the user does not go out of their way to break it. If I was to take more time and create defensive measures on it, I would place checks for number or words and values. An error would need to be thrown if 0 is entered on any question. An error would also need to be thrown if the user attempts to enter text instead of numbers or at the very least a words value could be implemented to check if the word corresponds to a numbered value.

An improvement in code would be to add the ability to reset the program without exiting. Allowing the user to return to the start via a simple question would be a good thing for the user to help with the possibility of what they are doing. Also, scripting in a command like using the word back so that way the user can undo an incorrect number without needing to restart would be help. In a base level design, it accomplishes what is needed of it and therefore completes the necessary requirements without attempting to make sure the software is safe and functional against basic attacks.



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