CSCE 1101 Assignment 2 Report

**Person class:**

Made the Person class as an abstract class with printInfo() as the pure virtual function.

**Customer class:**

Made the Customer class with no issues.

**Mechanic class:**

Made the mechanic class using a vector of type appointment instead of an array to make the structure more flexible.

**Queue class:**

Made a circular queue using template class, and I made it using arrays.

**Main function:**

* My laptop experienced issues while trying to make the files work, so I could noy attempt the bonus input. I used manual input using cin to input the data.
* I made a function appointmentSetUp to assign each customer to a mechanic. I achieved this using for loops to pass each customer by each mechanic to check if the mechanic was available at the time the customer booked.
* I sorted the customer array, custArr, in ascending order of appointments, then I pushed the array into the queue of type customer, custQueue.
* I made a function print to print the information of each customer and their appointment according to the example in the assignment instructions.

**Errors/problems:**

The issue with my code is that if I make the sixth customer’s appointment at a time where their mechanic should be booked, it doesn’t loop back to the first mechanic and doesn’t return any information.

**Output:**

The screenshots below are of the output of the code with different outputs: 