Coursework Report – 5COSC019C Object Oriented Programming

Student Name: T.T.H. Liyanage
Student ID: 20211175 / w1899297

Have you submitted the <u>video with the demonstration</u> of your system?   ☒ Yes   ☐ No

Video Link: https://drive.google.com/file/d/1R8al2bvd2L1Y-JMqhTNu-CfYW2w6mxsA/view?usp=share_link

Phase 1 – Design and classes implementation

Task	Did you attempt the task?	Student's comments (To which extent you implemented the task? Have you encountered any problems or issue?)
Design a UML Use Case Diagram of your system (submitted in a separate file).	☒ Yes ☐ No	Successfully implemented.
Design a UML Class Diagram of your system (submitted in a separate file).	☒ Yes ☐ No	Successfully implemented.
Implementation Class Person	☒ Yes ☐ No	Successfully implemented.
Implementation Class Doctor	☒ Yes ☐ No	Successfully implemented.
Implementation Class Patient	☒ Yes ☐ No	Successfully implemented.
Implementation Class Consultation	☒ Yes ☐ No	Successfully implemented.
Implementation Interface WestminsterSkinConsultationManager	☒ Yes ☐ No	Successfully implemented.

Phase 2 – Console menu implementation

Task	Did you attempt the task?	Student's comments (To which extent you implemented the task? Have you encountered any problems or issue?)
Add a doctor in the system with all the relative information (max 10 doctors)	☒ Yes ☐ No	Successfully implemented.
Delete a doctor from the system selecting the medical licence number. Display a message to confirm he/she has been removed and the total number of doctors in the centres.	☒ Yes ☐ No	Successfully implemented.
Print on the screen the list the doctors in the centre with all the relative information. The list should be ordered alphabetically.	☒ Yes ☐ No	Successfully implemented.
Save in a file entered by the user so far. The user should be able to load back the information running a new instance of the application.	☒ Yes ☐ No	Successfully implemented.

Phase 3 – GUI Implementation

Task	Did you attempt the task?	Student's comments (To which extent you implemented the task? Have you encountered any problems or issue?)
Doctor list visualisation. Sorting alphabetically.	☒ Yes ☐ No	Successfully implemented.
The user can select a doctor and add a consultation.	☒ Yes ☐ No	Successfully implemented.
In the consultation the user can add all the patient details.	☒ Yes ☐ No	Successfully implemented.
The user can select the date/time of the consultation considering that a doctor cannot have more than one consultation at the time.	☒ Yes ☐ No	Successfully implemented.
The user can enter and save the cost for the consultation. (£25 per hour and only the first one £15).	☒ Yes ☐ No	Successfully implemented.
The user can add some notes (text information or images). This information has been encrypted.	☒ Yes ☐ No	Notes can be added.

Phase 4 – Testing and system validation

Task	Did you attempt the task?	Student's comments (To which extent you implemented the task? Have you encountered any problems or issue?)
Test plan. (Submitted in a separate file).	☒ Yes ☐ No	Successfully implemented.
Implementation of an automated unit test for each scenario in the console menu.	☒ Yes ☐ No	Successfully implemented.
Error Handling across all the code, input validation and code quality.	☒ Yes ☐ No	Successfully implemented.