Coursework Report – 5COSC019C Object Oriented Programming

Student Name: **Perumpulli Arachchige Jeewana Rasidu**
Student ID: **w1867468**

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

Link for the Demo Video:
https://drive.google.com/file/d/112uwUbogxYII1T_NP1Gz0jOKL5mlb8CV/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	Fully Completed.
Design a UML Class Diagram of your system (submitted in a separate file).	☑ Yes ☐ No	Fully Completed.
Implementation Class Person	☑ Yes ☐ No	Fully Completed.
Implementation Class Doctor	☑ Yes ☐ No	Fully Completed.
Implementation Class Patient	☑ Yes ☐ No	Fully Completed.
Implementation Class Consultation	☑ Yes ☐ No	Fully Completed.
Implementation Interface WestminsterSkinConsultationManager	☑ Yes ☐ No	Fully Completed.

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	Fully Completed.
Delete a doctor from the system selecting the medical licence number. Display a message to confirm he/she	☑ Yes ☐ No	Fully Completed.

has been removed and the total number of doctors in the centres.		
Print on the screen the list the doctors in the centre with all the relative information. The list should be ordered alphabetically.	☑ Yes ☐ No	Fully Completed.
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	Fully Completed.

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	Fully Completed.
The user can select a doctor and add a consultation.	☑ Yes ☐ No	Fully Completed.
In the consultation the user can add all the patient details.	☑ Yes ☐ No	Fully Completed.
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	Fully Completed.
The user can enter and save the cost for the consultation. (£25 per hour and only the first one £15).	☑ Yes ☐ No	Fully Completed.
The user can add some notes (text information or images). This information has been encrypted.	☑ Yes ☐ No	Fully Completed. Have written a code for the encrypting and decrypting scenarios without using any available APIs.

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	Fully Completed.

Implementation of an automated unit test for each scenario in the console menu.	☑ Yes ☐ No	Fully Completed.
Error Handling across all the code, input validation and code quality.	☑ Yes ☐ No	Fully Completed.