**Coursework Test Plan – 5COSC019W Object Oriented Programming**

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**IDE used:** Apache Netbeans 16

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| **Test Case** | **Expected result** | **Actual result** | **Pass/Fail** |
| Input invalid character in menu. | Asks again to input a value until valid input is entered | Asks again to input a value until valid input is entered | Pass |
| Inputs are not case sensitive. Enter any valid input in either lowercase or uppercase. | Outcome is the same when input is in uppercase or lowercase. | Outcome is the same when input is uppercase or lowercase. | Pass |
| Add doctor ‘John Smith’ with his details. Enter ‘A’ from menu to add a doctor. | Doctor ‘John Smith’ successfully added to list of doctors with his details. | Doctor ‘John Smith’ successfully added to list of doctors with his details. | Pass |
| Add more doctors then view the list of doctors in alphabetical order by surname. Select ‘L’ from menu after adding doctors. | Displays all doctors with their information from ascending alphabetical order by their surname. | Displays all doctors with their information from ascending alphabetical order by their surname. | Pass |
| Input mobile number when adding a doctor that’s either not 11 digits or has a non-numeric character. | Asks again to input a mobile number until a valid input is entered. | Asks again to input a mobile number until a valid input is entered. | Pass |
| Add a doctor when there are already 10 doctors stored in the list. | Informs user that the maximum limit of doctors has been reached and they need to delete a doctor to add a new one. | Informs user that the maximum limit of doctors has been reached and they need to delete a doctor to add a new one. | Pass |
| Delete a doctor by entering their medical licence number. Input ‘D’ then enter their medical licence number to delete the doctor. | Confirms who got deleted by showing their information and displays the total number of doctors remaining in the list. | Confirms who got deleted by showing their information and displays the total number of doctors remaining in the list. | Pass |
| Enter an invalid medical licence number to delete a doctor. | Informs user that the medical licence is not found and asks again for an input. | Informs user that the medical licence is not found and asks again for an input. | Pass |
| Save the information of all the doctors in the list into a file. | Successfully saves the data and informs user that it has been saved. | Successfully saves the data and informs user that it has been saved. | Pass |
| Use the file stored to retrieve all the information of the doctors after running the program again. | The list of doctors is recovered. | The list of doctors is recovered. | Pass |
| Run console without files existing. | Exception thrown when file doesn’t exist. | Exception thrown when file doesn’t exist. | Pass |