Faculty of Engineering and Technology

Department of Electrical and Computer Engineering

Computer Architecture

ENCS 4370

Medical Test Management System

Test Cases

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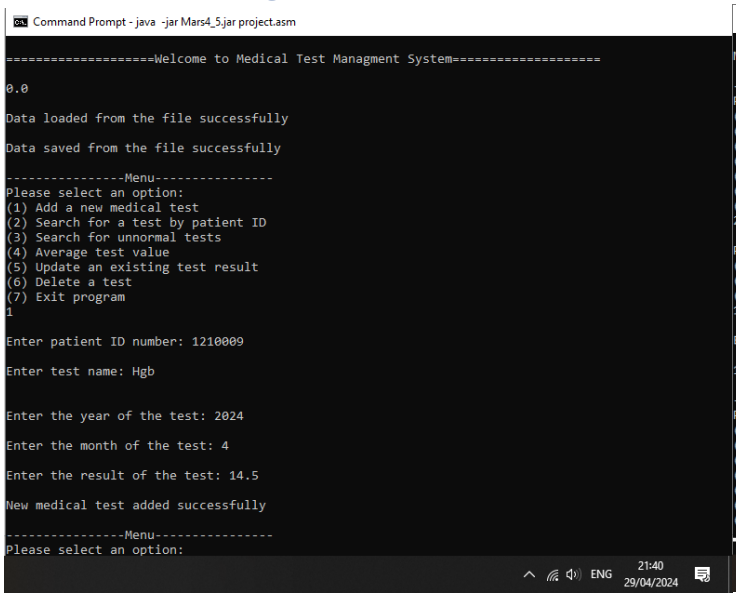
Case 1: Adding new medical test, and search for it to verify.



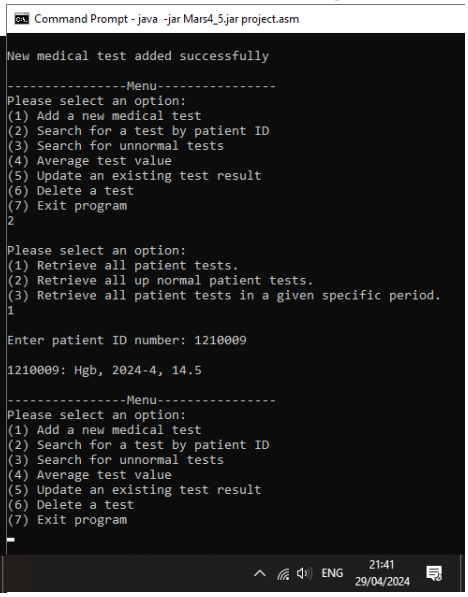
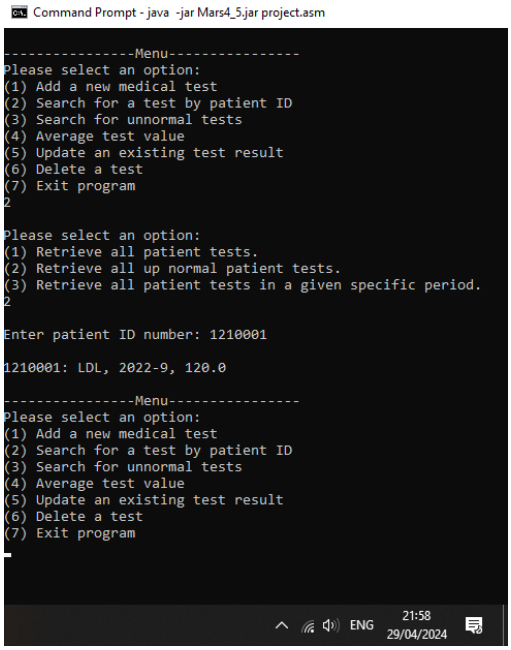


Figure 1 Add new test

Figure 2 Check if test added or not

- Notice adding new test with all required data and searching to verify add operation.

Case 2: Search for up normal patient tests by entering its ID.



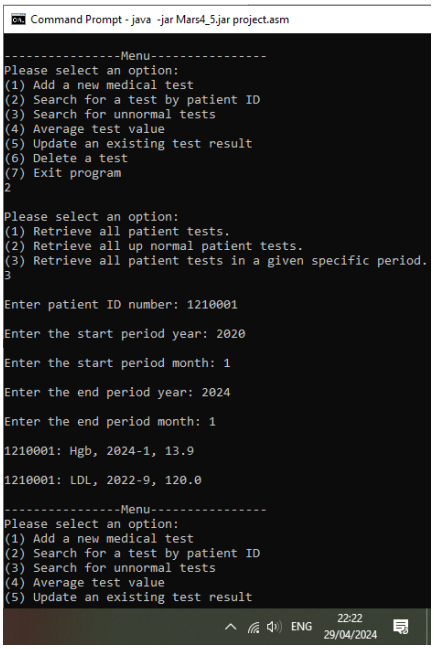


Figure 3 Search up normal test by patient ID

Figure 4 Search all patient tests in specific period by patient ID

- Notice in figure 3 that result of LDL test is **greater than** 100 which is **up normal** result.
- Also, in figure 4 notice the user enters the period between start 2020 and 2024 years and the tests in 2022 and 2024 displayed on the screen.

Case 3: Search for unnormal tests.

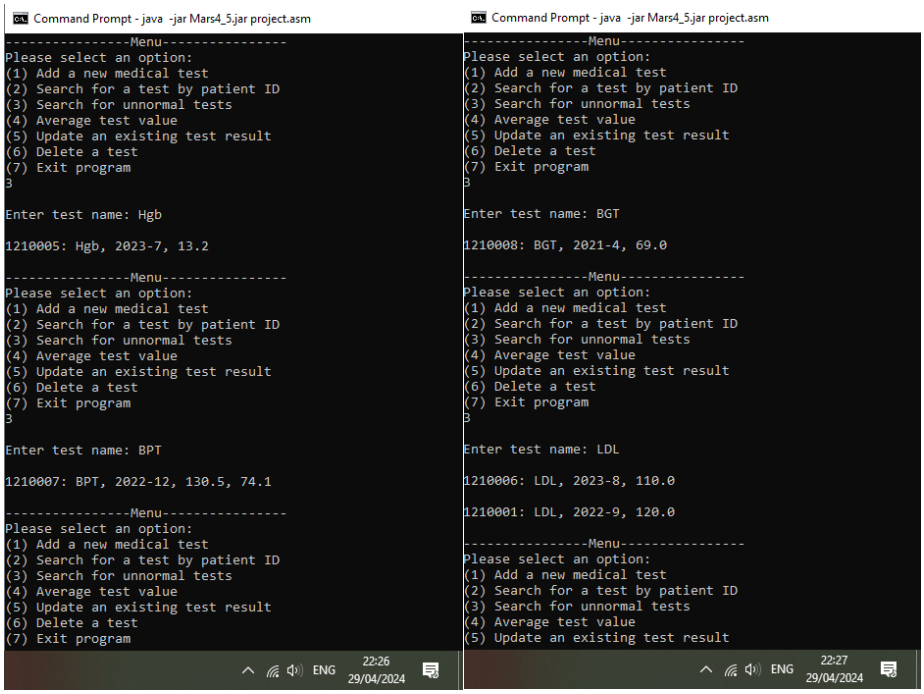


Figure 5 Search Hgb and BPT unnormal tests

Figure 6 Search BGT and LDL unnormal tests

- Notice in figure 5 for both Hgb and BPT tests the tests shown on the screen their results are unnormal since Hgb normal range between 13.8 to 17.2 and BPT first result less than 120 and second less than 80, and the result of Hgb shown is 13.2 which is less than 13.8. Also, the first result of BPT is greater than 120.
- Notice in figure 6 for both BGT and LDL tests the tests shown on the screen their results are unnormal since BGT normal range between 70 to 99 and LDL less than 100, so the result of Hgb shown is 69 which is less than 70. Also, the result of LDL is 110 and 120 are greater than 100.

Case 4: Find average tests results.

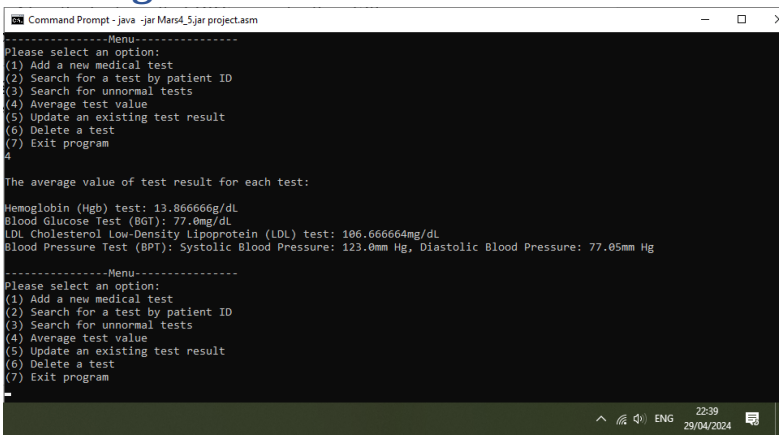


Figure 7 Find average tests results value

- Notice in figure 7 when user enter option 4 the system compute average result value for each type of medical tests and show on the screen with their specific periods.

Case 5: Update an existing test result, and verify the update.

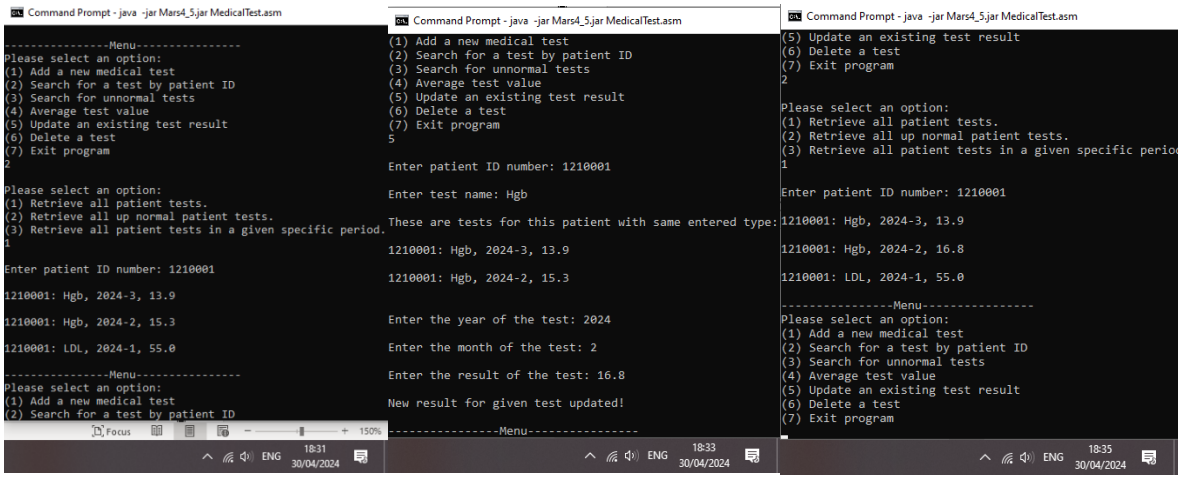


Figure 8 Update tests' result

- Notice that in figure 8 the user updates the result of patient ID 1210001 and its Hgb test result from 15.3 which is the original result to the new result 16.8 on given specific date, and the system shown that update operation successfully applied by searching for this test.

Case 6: Delete a test, and verify that.

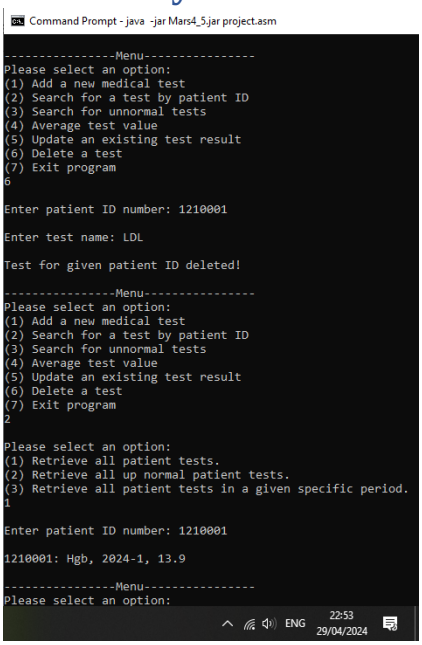


Figure 9 Delete test

- Notice that in figure 9 the user deleted LDL test for patients' ID = 1210001 which is shown in figure 4 for this patient and the system shown by search that LDL test actually deleted.