

BIRZEIT UNIVERSITY

Faculty of Engineering and Technology Electrical and Computer Engineering Department

Linux Laboratory

ENCS3130

PROJECT #1 – Shell Scripting

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Teaching assistant: Eng. Tarek Zaidan

Section: 6

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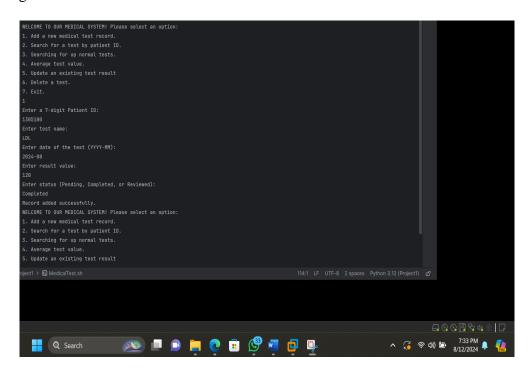
Date: 10th.Augest.2024

PART #1: Sample Run

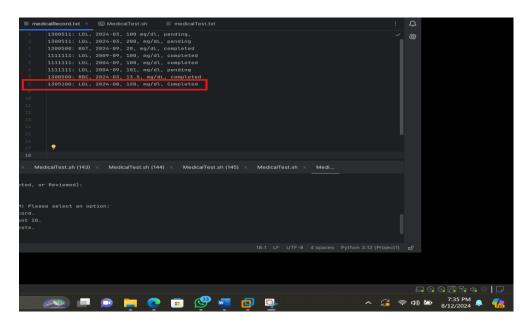
1. Add a new medical test record:

File before adding a record:

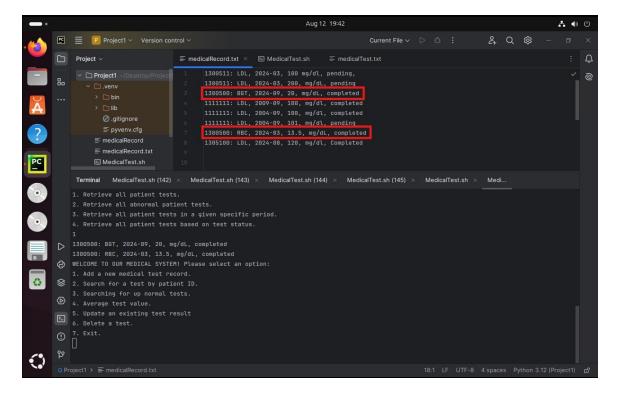
Adding a new record:



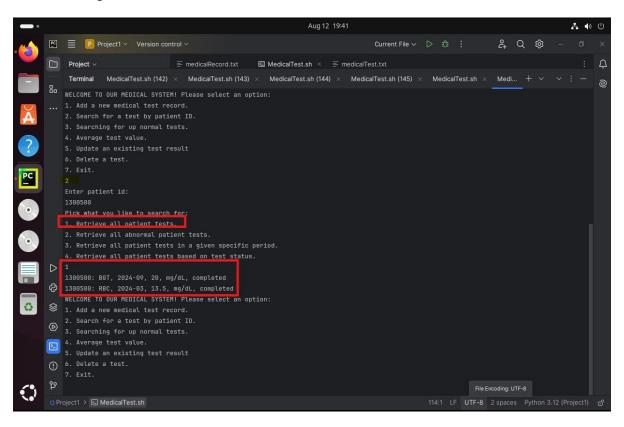
File after selecting option 1:



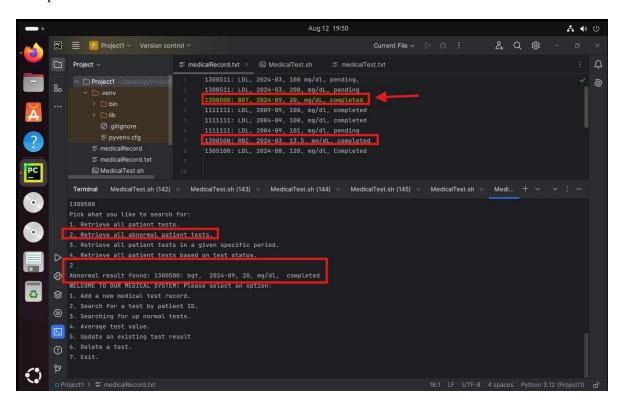
- 2. Search for a test by Patient ID:
 - 2.1: Patient with Id 1300500 tests in the file



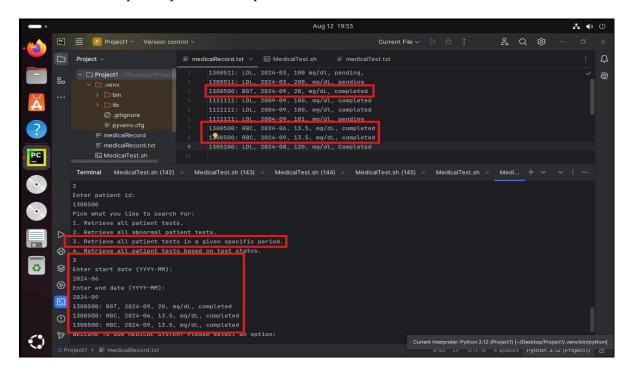
After searching for this id:



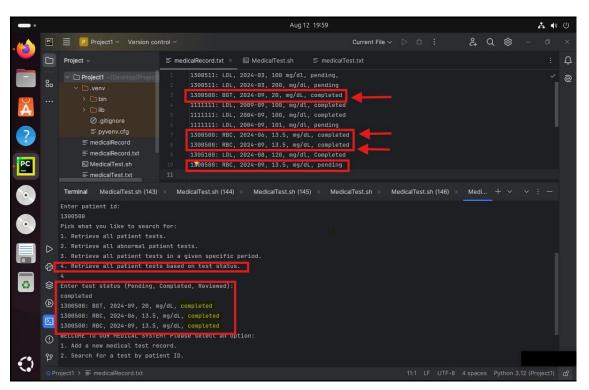
2.2 up normal tests for the Patient:



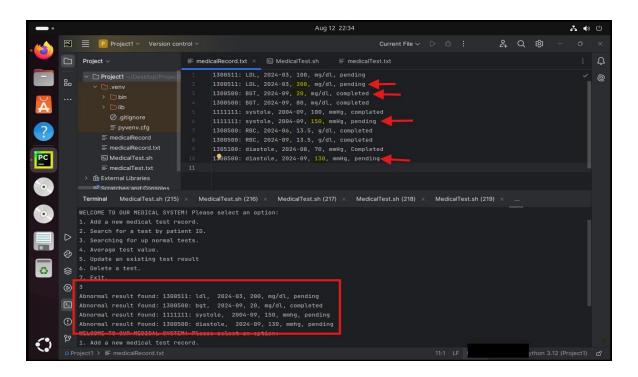
2.3 All Tests for specific period for the patient:



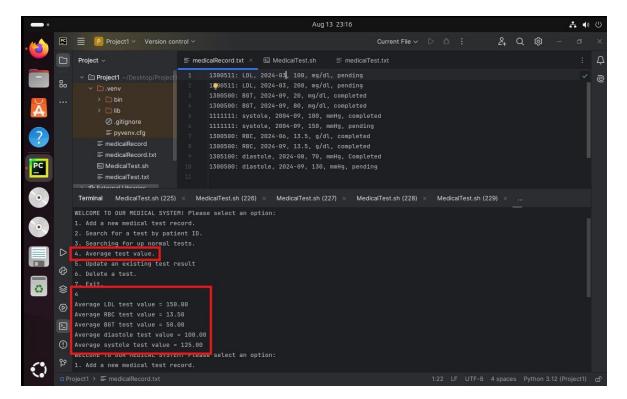
2.4 All tests according to specific status for the patient :



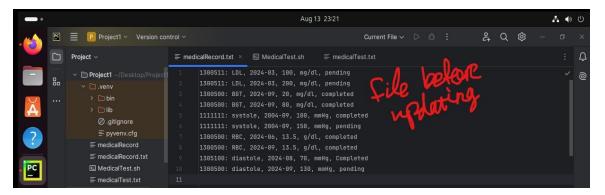
3. Searching for up normal tests: the system will retrieve all up normal patients' tests based on the input medical test.



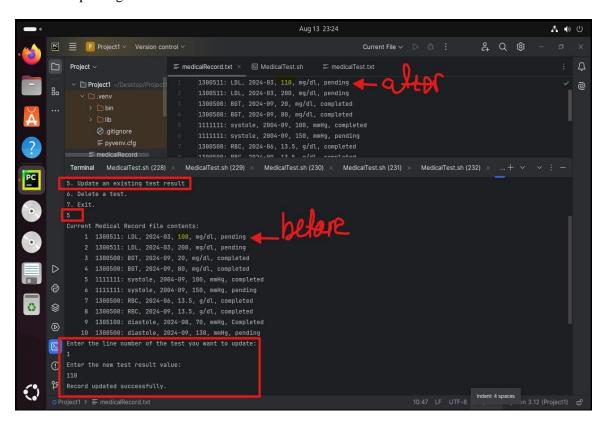
4. Average test value: the system will retrieve the average value of each medical test.



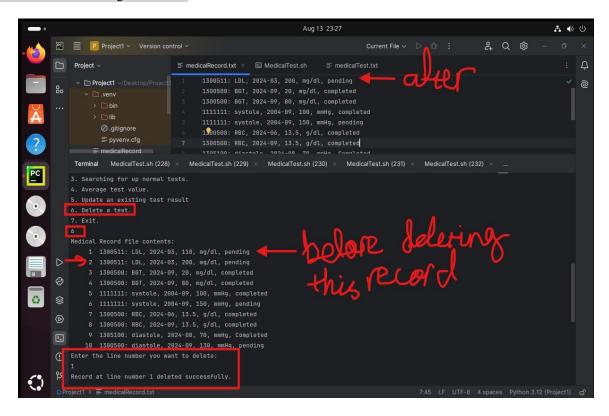
5. Update an existing test result. File before updating:



File after updating:

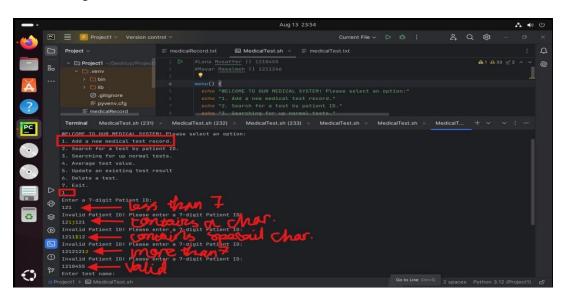


6. Delete an existing test result.

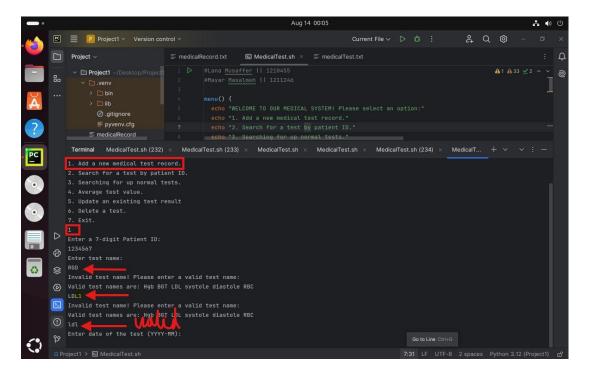


PART #2: Tests for Invalid and edge Cases

- 1. Add a new medical test record:
 - 1.1 Testing an invalid patient Id:
 - Id digit less than 7.
 - Contains a character.
 - Contains a special character.
 - Id digits more than 7

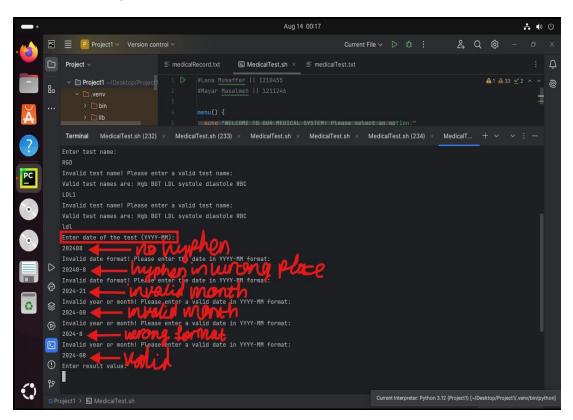


- 1.2 Testing invalid test name:
 - Not exist testname.
 - With numeric number.

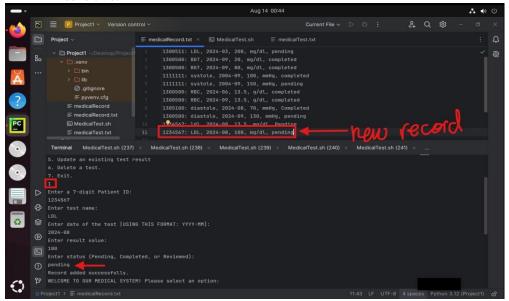


1.3 Testing Date:

- No hyphen.
- Hyphen in wrong place.
- Invalid month.
- Wrong format.

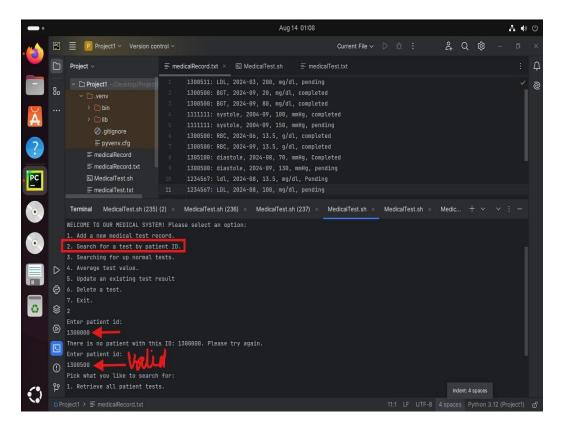


This is our file after adding the new record, Note that the status is considered case-insensitive.

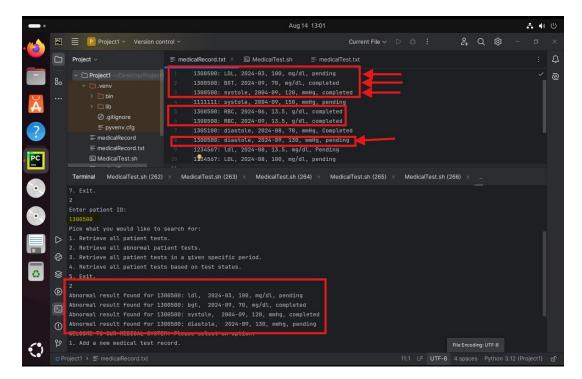


2. Search for a test by patient Id.

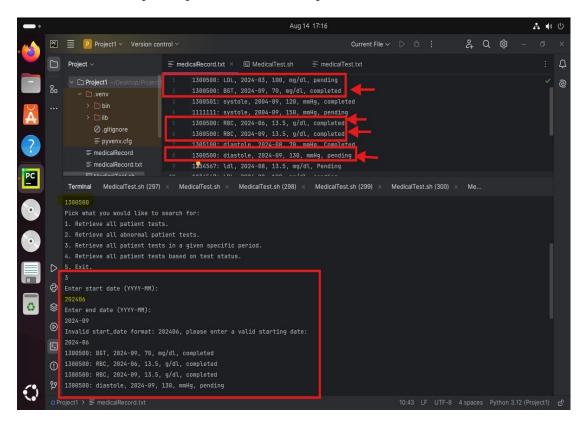
2.1 No patient in medicalRecord.txt file has the entered id, however we have a patient with id 1300500:



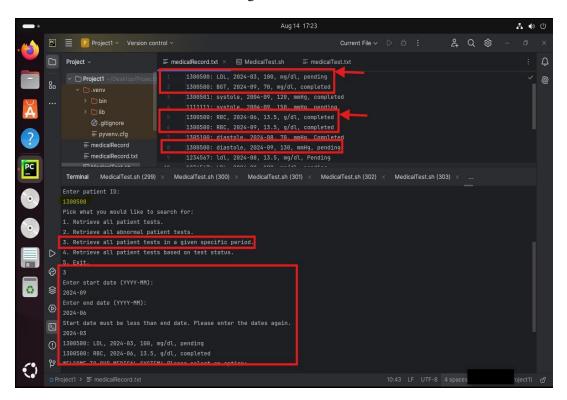
2.2 We tried to test the edge cases when the result value is exactly on the boundaries.



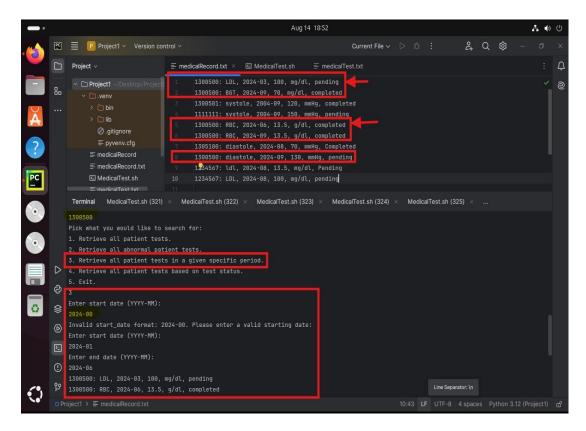
2.3 Search for tests in a specific period for the entered patient Id:



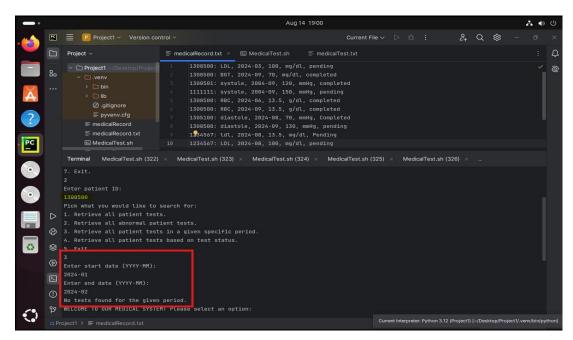
If the user enters a start date larger than the end date:



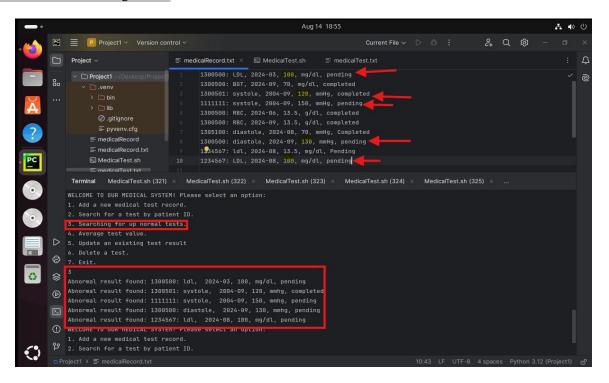
➤ If the user enters an invalid month:



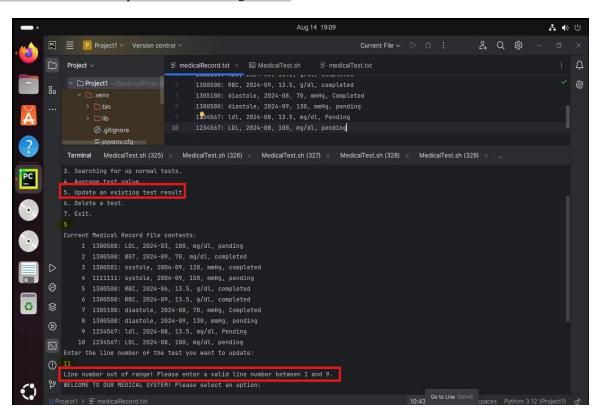
➤ If the user searches for tests under a selected patient ID and no tests are found for the specified period, display a message indicating that there are no tests available for that patient within the selected timeframe:



3. Abnormal with edge cases



4. If the user tries to update an un-existing record:



5. If the user attempts to delete a record that does not exist:

