

Faculty of Engineering & Technology

Electrical & Computer Engineering Department

COMPUTER ARCHITECTURE: ENCS4370

Project1: Test Cases

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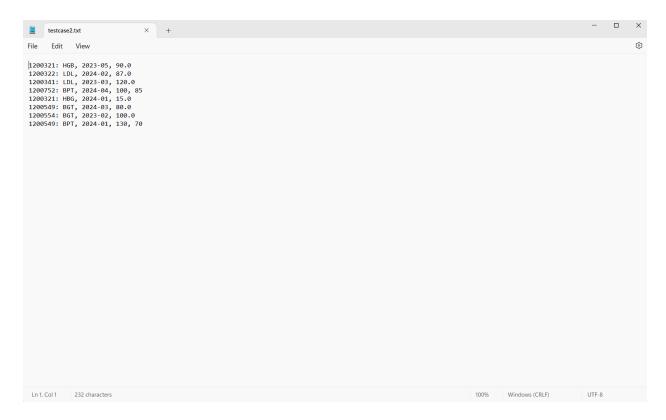
Instructor: Dr. Ayman Hroub

Section: 2

Date: 30-4-2024

Birzeit

We have this file, we want to make some test cases:



We enter the name of the file and it print the number of tests inside it

```
Mars Messages Run I/O

Hello, Enter the name of file: testcase2.txt
```

There is 8 tests in the file.

We print the menu:

```
Mars Messages Run I/O

Choose an option:

1. Add a new medical test
2. Search for a test by patient ID
3. Search for unnormal patient tests
4. Average test value
5. Update an existing test result
6. Delete a test
7. Exit
```

1. A new medical test:

```
Mars Messages Run I/O

Enter an Option: 1

Enter Patient ID (7 digits): 1200420

Clear Enter Test Name (HGB, BGT, LDL, BPT): BGT

Enter Test Date (YYYY-MM): 2023-03

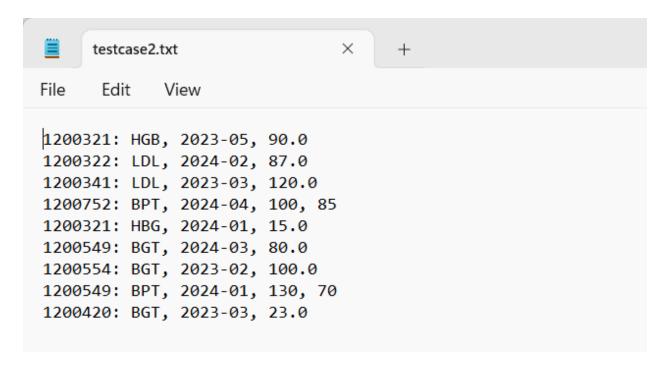
Enter The Result for BGT Test: 23.0
```

```
Mars Messages Run I/O

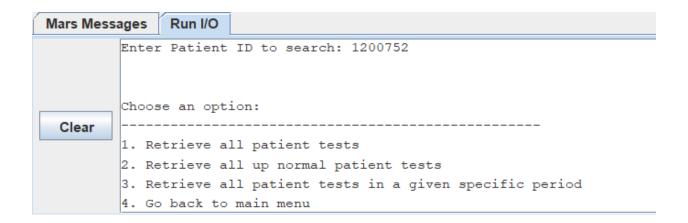
| 1200321: HGB, 2023-05, 90.0 |
| 1200322: LDL, 2024-02, 87.0 |
| 1200341: LDL, 2023-03, 120.0 |
| 1200752: BPT, 2024-04, 100, 85 |
| 1200321: HBG, 2024-01, 15.0 |
| 1200549: BGT, 2024-03, 80.0 |
| 1200549: BFT, 2023-02, 100.0 |
| 1200549: BFT, 2024-01, 130, 70 |
| 1200420: BGT, 2023-03, 23, 0
```

Added successfully in the last.

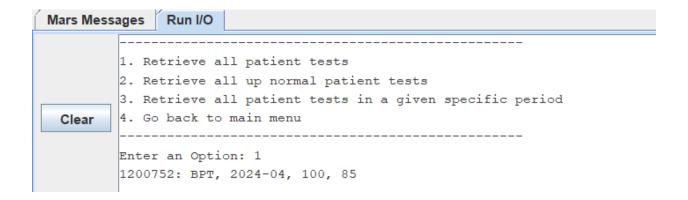
Also, it was added to the file:



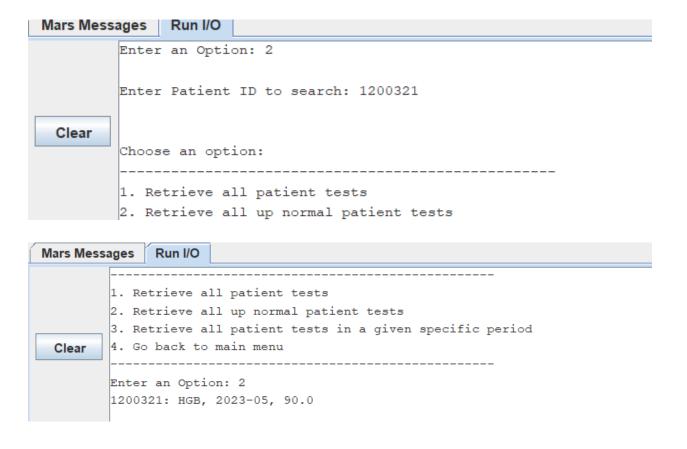
2. Search for test by ID.



2.1 Retrieve all patient tests:



2.2 Retrieve all up normal patient tests:



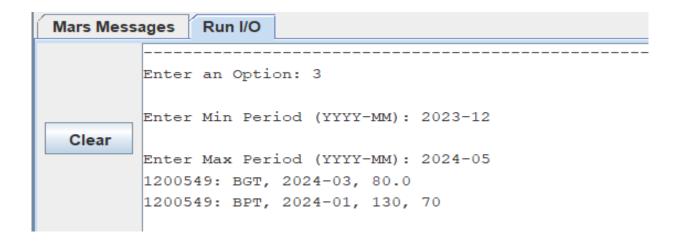
2.3 Retrieve all patient tests in a given specific period:

```
Mars Messages Run I/O

7. Exit
Enter an Option: 2

Clear Enter Patient ID to search: 1200549

Choose an option:
```



2.4 If we enter 4, we return to main menu

3. Searching for unnormal tests:

```
Mars Messages Run I/O

5. Update an existing test result
6. Delete a test
7. Exit

Enter an Option: 3

Enter Test Name (HGB, BGT, LDL, BPT): LDL
1200341: LDL, 2023-03, 120.0
```

4. Average test value:

```
Clear

The Average of Hgb: 52.5

The Average of BGT: 90.0

The Average of LDL: 103.5

The Average of BPT: 115.0/77.5
```

5. Update an existing test result

```
Mars Messages Run I/O

6) 1200549: BGT, 2024-03, 80.0
7) 1200554: BGT, 2023-02, 100.0
8) 1200549: BPT, 2024-01, 130, 70
9) 1200420: BGT, 2023-03, 23.0

Clear

Enter number of line for test to update: 9

BGT
Enter The New Result: 30
```

```
Mars Messages Run I/O

| 1200322: LDL, 2024-02, 87.0 |
| 1200341: LDL, 2023-03, 120.0 |
| 1200752: BPT, 2024-04, 100, 85 |
| 1200321: HBG, 2024-01, 15.0 |
| 1200549: BGT, 2024-03, 80.0 |
| 1200554: BGT, 2023-02, 100.0 |
| 1200549: BPT, 2024-01, 130, 70 |
| 1200420: BGT, 2023-03, 30.0 |
| Test updated successfully.
```

It was update in the file:

```
testcase2.txt × +

File Edit View

| 1200321: HGB, 2023-05, 90.0 |
| 1200322: LDL, 2024-02, 87.0 |
| 1200341: LDL, 2023-03, 120.0 |
| 1200752: BPT, 2024-04, 100, 85 |
| 1200321: HBG, 2024-01, 15.0 |
| 1200549: BGT, 2024-03, 80.0 |
| 1200554: BGT, 2023-02, 100.0 |
| 1200549: BPT, 2024-01, 130, 70 |
| 1200420: BGT, 2023-03, 30.0 |
```

6. Delete a test

```
Mars Messages Run I/O

3) 1200341: LDL, 2023-03, 120.0
4) 1200752: BPT, 2024-04, 100, 85
5) 1200321: HBG, 2024-01, 15.0
6) 1200549: BGT, 2024-03, 80.0
7) 1200554: BGT, 2023-02, 100.0
8) 1200549: BPT, 2024-01, 130, 70
9) 1200420: BGT, 2023-03,30.0

Enter number of line for test to delete: 7
```

```
Mars Messages Run I/O

Test deleted successfully.
1200321: HGB, 2023-05, 90.0
1200322: LDL, 2024-02, 87.0
1200341: LDL, 2023-03, 120.0
1200752: BPT, 2024-04, 100, 85
1200321: HBG, 2024-01, 15.0
1200549: BGT, 2024-03, 80.0
1200549: BPT, 2024-01, 130, 70
1200420: BGT, 2023-03,30.0
```

It was delete in the file:

```
testcase2.txt × +

File Edit View

| 1200321: HGB, 2023-05, 90.0 |
| 1200322: LDL, 2024-02, 87.0 |
| 1200341: LDL, 2023-03, 120.0 |
| 1200752: BPT, 2024-04, 100, 85 |
| 1200321: HBG, 2024-01, 15.0 |
| 1200549: BGT, 2024-03, 80.0 |
| 1200549: BPT, 2024-01, 130, 70 |
| 1200420: BGT, 2023-03, 30.0 |
```

7. Exit