Birzeit University
Faculty of Engineering and Technology
Department of Computer Systems Engineering

COMPUTER ARCHITECTURE

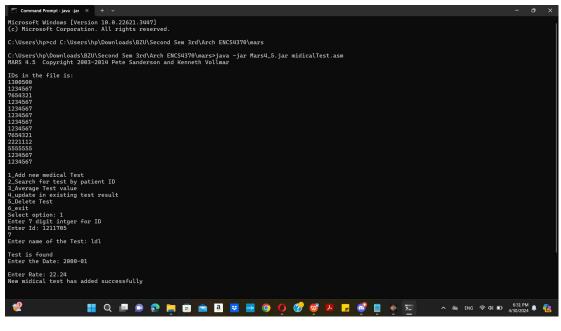**ENCS4370**
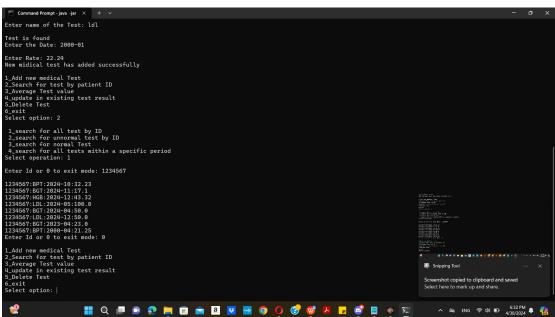
Project #1

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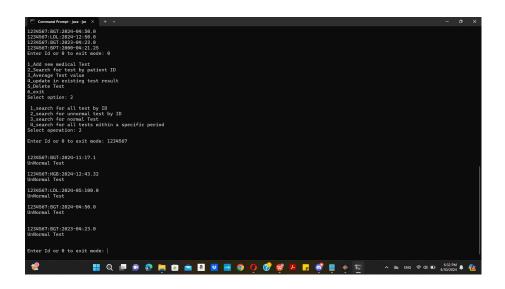**Prepared by:** Mohammad Khdour   1212517
                  Alhasan Manasra   1211705

Instructor: Dr. Aziz Qaroush

Date: 5/1/2024

```
Command Prompt - java -jar

Enter name of the Test: ldl

Test is found
Enter the Date: 2000-01

Enter Rate: 22.24
New midical test has added successfully

1_Add new medical Test
2_Search for test by patient ID
3_Average Test value
4_update in existing test result
5_Delete Test
6_exit
Select option: 2

 1_search for all test by ID
 2_search for unnormal test by ID
 3_search for normal Test
 4_search for all tests within a specific period
Select operation: 1

Enter Id or 0 to exit mode: 1234567

1234567:BPT:2024-10:32.23
1234567:BGT:2024-11:17.1
1234567:HGB:2024-12:43.32
1234567:LDL:2024-05:100.0
1234567:BGT:2024-04:50.0
1234567:LDL:2024-12:50.0
1234567:BGT:2023-04:23.0
1234567:BPT:2000-04:21.25
Enter Id or 0 to exit mode: 0

1_Add new medical Test
2_Search for test by patient ID
3_Average Test value
4_update in existing test result
5_Delete Test
6_exit
Select option:
```

Snipping Tool

Screenshot copied to clipboard and saved
Select here to mark up and share.

```
Command Prompt - java -jar

1234567:BGT:2024-04:50.0
1234567:LDL:2024-12:50.0
1234567:BGT:2023-04:23.0
1234567:BPT:2000-04:21.25
Enter Id or 0 to exit mode: 0

1_Add new medical Test
2_Search for test by patient ID
3_Average Test value
4_update in existing test result
5_Delete Test
6_exit
Select option: 2

 1_search for all test by ID
 2_search for unnormal test by ID
 3_search for normal Test
 4_search for all tests within a specific period
Select operation: 2

Enter Id or 0 to exit mode: 1234567

1234567:BGT:2024-11:17.1
UnNormal Test

1234567:HGB:2024-12:43.32
UnNormal Test

1234567:LDL:2024-05:100.0
UnNormal Test

1234567:BGT:2024-04:50.0
UnNormal Test

1234567:BGT:2023-04:23.0
UnNormal Test

Enter Id or 0 to exit mode:
```

```
1234567
1234567
1234567
7654321
2221112
5555555
1234567
1234567
1211705

1_Add new medical Test
2_Search for test by patient ID
3_Average Test value
4_update in existing test result
5_Delete Test
6_exit
Select option: 2

 1_search for all test by ID
 2_search for unnormal test by ID
 3_search for normal Test
 4_search for all tests within a specific period
Select operation: 3

Enter Id or 0 to exit mode: 1234567

1234567:BPT:2024-10:32.23

Normal Test

1234567:LDL:2024-12:50.0

Normal Test

1234567:BPT:2000-04:21.25

Normal Test

Enter Id or 0 to exit mode:
```

```
Enter Id or 0 to exit mode: 1234567

1234567:BPT:2024-10:32.23

Normal Test

1234567:LDL:2024-12:50.0

Normal Test

1234567:BPT:2000-04:21.25

Normal Test

Enter Id or 0 to exit mode: 0

1_Add new medical Test
2_Search for test by patient ID
3_Average Test value
4_update in existing test result
5_Delete Test
6_exit
Select option: 2

 1_search for all test by ID
 2_search for unnormal test by ID
 3_search for normal Test
 4_search for all tests within a specific period
Select operation: 4

Enter Id or 0 to exit mode: 1234567
Enter start date (Y-M): 2023-01
Enter end date (Y-M): 2023-11

1234567:BGT:2023-04:23.0

in period

Enter Id or 0 to exit mode:
```

```
ar midicalTest.asm
MARS 4.5  Copyright 2003-2014 Pete Sanderson and Kenneth Vollmar

IDs in the file is:
1300500
1234567
7654321
1234567
1234567
1234567
1234567
1234567
7654321
2221112
5555555
1234567
1234567
1211705

1_Add new medical Test
2_Search for test by patient ID
3_Average Test value
4_update in existing test result
5_Delete Test
6_exit
Select option: 3
Avarege for 'LDL' test is:57.413334
Avarege for 'RBC' test is:26.17
Avarege for 'HGB' test is:43.32
Avarege for 'BGT' test is:30.924
Avarege for 'BPT' test is:43.493332

1_Add new medical Test
2_Search for test by patient ID
3_Average Test value
4_update in existing test result
5_Delete Test
6_exit
Select option:
```

```
Enter ID for patient to update: 1234567

Enter name of the Test: bgt

Enter the Date: 2024-11

Enter new result: 66.64

update has done successfully
1_Add new medical Test
2_Search for test by patient ID
3_Average Test value
4_update in existing test result
5_Delete Test
6_exit
Select option:
```

Enter new result: 88.84

update has done successfully
1_Add new medical Test
2_Search for test by patient ID
3_Average Test value
4_update in existing test result
5_Delete Test
6_exit
Select option: 5

Enter Id or 0 to exit mode: 1234567

Enter name of the Test: bgt

Enter the Date: 2024-11

the test has deleted successfully
1_Add new medical Test
2_Search for test by patient ID
3_Average Test value
4_update in existing test result
5_Delete Test
6_exit
Select option: 6

C:\Users\hp\Downloads\BZU\Second Sem 3rd\Arch ENCS4370\mars>s

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Enter Id or 0 to exit mode: 1234567
Enter start date (Y-M): 2023-01
Enter end date (Y-M): 2023-11

1234567:BGT:2023-04:23.0

in period

Enter Id or 0 to exit mode: 0

1_Add new medical Test
2_Search for test by patient ID
3_Average Test value
4_update in existing test result
5_Delete Test
6_exit
Select option: 1
Enter 7 digit intger for ID
Enter Id: 123456789
9
Please enter 7 digit intger for ID
Enter 7 digit intger for ID
Enter Id: 1234567
7
Enter name of the Test: lll

Test is not found
Enter name of the Test: ldl

Test is found
Enter the Date: 2025-01

Please enter a year between 1948 - 2024

Enter the Date: 2022-13

Please enter a month between 01 - 12

```
2_Search for test by patient ID
3_Average Test value
4_update in existing test result
5_Delete Test
6_exit
Select option: 2

 1_search for all test by ID
 2_search for unnormal test by ID
 3_search for normal Test
 4_search for all tests within a specific period
Select operation: 4

Enter Id or 0 to exit mode: 1234567
Enter start date (Y-M): 2025-01

Please enter a year between 1948 - 2024
Enter start date (Y-M): 2000-13

Please enter a month between 01 - 12
Enter start date (Y-M): 2000-01
Enter end date (Y-M): 2026-12

Please enter a year between 1948 - 2024
Enter end date (Y-M): 2024-14

Please enter a month between 01 - 12
Enter end date (Y-M): 2024-12

1234567:BPT:2024-10:32.23

in period

1234567:LDL:2024-05:100.0

in period

1234567:BGT:2024-04:50.0

in period
```