



**BIRZEIT UNIVERSITY**

**DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING**

**Linux Laboratory – ENCS3130**

**Example Runs**

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**Shell Scripting project - Medical Test Management System**

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**Section: 7**

**Date: August 14<sup>th</sup>, 2024**

## I. Run 1

```
Medical Record Management System
1. Add a new medical test record
2. Search for tests by patient ID
3. Update an existing test result
4. Retrieve average test values
5. Exit
Enter your choice [1-5]: 2
Please Enter Patient ID (please enter exactly 7 digits):
1300546
1. Retrieve all patient tests
2. Retrieve all abnormal patient tests
3. Retrieve all patient tests in a specific period
4. Retrieve all patient tests based on test status
Enter your choice [1-4]:1
1300546: diastole, 2024-06, 75, mm Hg, Completed
1300546: Hgb, 2024-07, 13.7, g/dL, Reviewed
1300546: BGT, 2024-08, 92, mg/dL, Pending
1300546: LDL, 2024-09, 102, mg/dL, Completed
1300546: systole, 2024-10, 130, mm Hg, Reviewed
Medical Record Management System
1. Add a new medical test record
2. Search for tests by patient ID
3. Update an existing test result
4. Retrieve average test values
5. Exit
Enter your choice [1-5]: 2
Please Enter Patient ID (please enter exactly 7 digits):
1300512
1. Retrieve all patient tests
2. Retrieve all abnormal patient tests
3. Retrieve all patient tests in a specific period
4. Retrieve all patient tests based on test status
Enter your choice [1-4]:2
1300512: Hgb, 2024-05, 15.0, g/dL, Reviewed
1300512: BGT, 2024-06, 100, mg/dL, Pending
Medical Record Management System
1. Add a new medical test record
2. Search for tests by patient ID
3. Update an existing test result
4. Retrieve average test values
5. Exit
Enter your choice [1-5]: 3
Please enter patient ID:
1300511
Please Enter Test Name
Hgb
Please enter a new result:
15.2
```

```
Record updated successfully.
Medical Record Management System
1. Add a new medical test record
2. Search for tests by patient ID
3. Update an existing test result
4. Retrieve average test values
5. Exit
Enter your choice [1-5]: 2
Please Enter Patient ID (please enter exactly 7 digits):
1300511
1. Retrieve all patient tests
2. Retrieve all abnormal patient tests
3. Retrieve all patient tests in a specific period
4. Retrieve all patient tests based on test status
Enter your choice [1-4]:4
Enter status (Pending, Completed, Reviewed):Completed
1300511: diastole, 2024-07, 82, mm Hg, Completed
1300511: Hgb, 2024-04, 15.2 g/dL, Completed
Medical Record Management System
1. Add a new medical test record
2. Search for tests by patient ID
3. Update an existing test result
4. Retrieve average test values
5. Exit
Enter your choice [1-5]: 1
Please Enter Patient ID (please enter exactly 7 digits):
1300555
Please Enter Test Name
Hgb
Please Enter Date (YYYY-MM)
2024-05
Please enter result (float number):
12.2
Please enter unit (g/dL, mg/dL, mm Hg):
g/dL
Please enter status (pending, completed, reviewed):
Pending
```

Successful

Medical Record Management System

1. Add a new medical test record
2. Search for tests by patient ID
3. Update an existing test result
4. Retrieve average test values
5. Exit

Enter your choice [1-5]: 4

Average for BGT = 96.96

Average for diastole = 84.04

Average for Hgb = 18.21

Average for LDL = 112.12

Average for systole = 127.32

Medical Record Management System

1. Add a new medical test record
2. Search for tests by patient ID
3. Update an existing test result
4. Retrieve average test values
5. Exit

Enter your choice [1-5]: 5

## II. Run 2

```
Medical Record Management System
1. Add a new medical test record
2. Search for tests by patient ID
3. Update an existing test result
4. Retrieve average test values
5. Exit
Enter your choice [1-5]: 1
Please Enter Patient ID (please enter exactly 7 digits):
123
Wrong input, please make sure that the ID has 7 digits
1300222
Please Enter Test Name
Hgb
Please Enter Date (YYYY-MM)
202
Wrong input
2024-06
Please enter result (float number):
14.2
Please enter unit (g/dL, mg/dL, mm Hg):
g/dL
Please enter status (pending, completed, reviewed):
pe
Invalid Status. Must be one of: pending, completed, reviewed.
Pending
Successful
Medical Record Management System
1. Add a new medical test record
2. Search for tests by patient ID
3. Update an existing test result
4. Retrieve average test values
5. Exit
Enter your choice [1-5]: 2
Please Enter Patient ID (please enter exactly 7 digits):
123
Wrong input, please make sure that the ID has 7 digits
1300222
1. Retrieve all patient tests
2. Retrieve all abnormal patient tests
3. Retrieve all patient tests in a specific period
4. Retrieve all patient tests based on test status
Enter your choice [1-4]:1
1300222: Hgb, 2024-06, 14.2, g/dL, pending
Medical Record Management System
1. Add a new medical test record
2. Search for tests by patient ID
3. Update an existing test result
4. Retrieve average test values
5. Exit
Enter your choice [1-5]: █
```

### III. Run 3

```
Medical Record Management System
1. Add a new medical test record
2. Search for tests by patient ID
3. Update an existing test result
4. Retrieve average test values
5. Exit
Enter your choice [1-5]: 4
Average for BGT = 96.96
Average for diastole = 84.04
Average for Hgb = 18.06
Average for LDL = 112.12
Average for systole = 127.32
Medical Record Management System
1. Add a new medical test record
2. Search for tests by patient ID
3. Update an existing test result
4. Retrieve average test values
5. Exit
Enter your choice [1-5]: 1
Please Enter Patient ID (please enter exactly 7 digits):
1300444
Please Enter Test Name
BGT
Please Enter Date (YYYY-MM)
2024-07
Please enter result (float number):
14.6
Please enter unit (g/dL, mg/dL, mm Hg):
mg/dL
Please enter status (pending, completed, reviewed):
completed
Successful
Medical Record Management System
1. Add a new medical test record
2. Search for tests by patient ID
3. Update an existing test result
4. Retrieve average test values
5. Exit
Enter your choice [1-5]: 4
Average for BGT = 93.79
Average for diastole = 84.04
Average for Hgb = 18.06
Average for LDL = 112.12
Average for systole = 127.32
Medical Record Management System
1. Add a new medical test record
2. Search for tests by patient ID
3. Update an existing test result
4. Retrieve average test values
5. Exit
```