**CST8102-16F** **Lab8 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Section#: \_\_\_\_\_\_\_\_\_\_\_\_\_**

**Linux Shell Scripting I**

**Submission**

Demonstrate your script execution on your laptop to the professor during your scheduled lab periods and submit the completed lab on BlackBoard before due date.

**Procedure**

Write the following script using your Linux virtual machine. You must use **vim** as the editor.

The first line of your script file should force the use of the **bash** shell as the command interpreter. Your script file should be properly commented.

In this assignment, you will create a script called **mygrade** that will calculate and then display the letter grade. Use only integers for grade calculations.

1. Get user inputs of the following grades:

Assignments 40%

Test1 15%

Test2 15%

Final exam 30%

**Note:** To avoid decimal places in calculations, you may prompt the user to input an integer

percentage number for each of the items listed above. You don't have to handle

invalid input.

2. Calculate the number grade by adding up the four grades input by user

3. Convert the number grade to letter grade using the table below:

(hint: use “Multilevel **if-then-else**” or **case** statement)

**Number Grade Letter Grade**

90 - 100 A+

85 - 89 A

80 - 84 A-

77 - 79 B+

73 - 76 B

70 - 72 B-

67 - 69 C+

63 - 66 C

60 - 62 C-

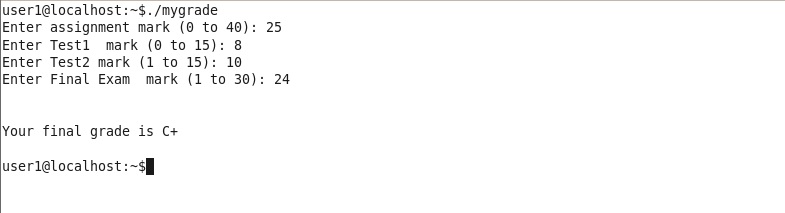
57 - 59 D+

53 - 56 D

50 - 52 D-

0 - 49 F

The screenshot below demonstrates the execution of this script file.



#!/bin/bash

#Lab 8 - Shell Script I

echo

echo "Enter your following marks. Integer values only."

echo

echo "Enter assignment mark(0 to 40): "

read M1

echo "Enter Test1 mark(0 to 15): "

read M2

echo "Enter Test2 mark(0 to 15): "

read M3

echo "Enter Final Exam mark (0 to 30): "

read M4

echo

FMARK=$((M1+M2+M3+M4))

if [ $FMARK -ge 90 ] && [ $FMARK -le 100 ];then

echo "Your final grade is A+"

elif [ $FMARK -ge 85 ] && [ $FMARK -le 89 ];then

echo "Your final grade is A"

elif [ $FMARK -ge 80 ] && [ $FMARK -le 84 ];then

echo "Your final grade is A-"

elif [ $FMARK -ge 77 ] && [ $FMARK -le 79 ];then

echo "Your final grade is B+"

elif [ $FMARK -ge 73 ] && [ $FMARK -le 76 ];then

echo "Your final grade is B"

elif [ $FMARK -ge 70 ] && [ $FMARK -le 72 ];then

echo "Your final grade is B-"

elif [ $FMARK -ge 67 ] && [ $FMARK -le 69 ];then

echo "Your final grade is C+"

elif [ $FMARK -ge 63 ] && [ $FMARK -le 66 ];then

echo "Your final grade is C"

elif [ $FMARK -ge 60 ] && [ $FMARK -le 62 ];then

echo "Your final grade is C-"

elif [ $FMARK -ge 57 ] && [ $FMARK -le 59 ];then

echo "Your final grade is D+"

elif [ $FMARK -ge 53 ] && [ $FMARK -le 56 ];then

echo "Your final grade is D"

elif [ $FMARK -ge 50 ] && [ $FMARK -le 52 ];then

echo "Your final grade is D-"

elif [ $FMARK -ge 0 ] && [ $FMARK -le 49 ];then

echo "Your final grade is F"

fi