CPAN133 – Operating Systems Winter 2023

**Exercise-8**

Due- March 22, 11:59 PM

Note: For all the following questions you should copy the answers from scripts and paste here.

Part1: Exercise [5]

1. Create the following variables and assign values to them: (you should create a shell script not by typing on the terminal)

a. Type **fruit** and assign **apple** to it.

**A: fruit=”apple”**

b. Type **echo Fruit**. What do you see?

**A: Fruit**

c. Type **echo $fruit.** What do you see?

**A: apple**

d. Create a variable and call it **MEMO** and assign the value “Meeting will be today afternoon”.

**A: MEMO=”Meeting will be today afternoon”**

e. Print the content of it.

**A: echo $MEMO**

f) Make **MEMO** readonly and assign a new value to it “Meeting will be tomorrow afternoon”

**A: readonly MEMO**

**MEMO=”Meeting will be tomorrow afternoon”**

g) Print the content of it. What do you see?

**A: Fruit**

**apple**

**Meeting will be today afternoon**

**test.sh: line 11: MEMO: readonly variable**

**Meeting will be today afternoon**

\*what do you see—answers you will find after running the script.

Part2: Write the shell scripts for the following problems [3X5=15]

1. Develop a shell script (named math.sh) to accept three arguments and find the result of the operation (addition only): For example: *5+6+7*

*Use the positional operator $# to refer to the number of arguments. $1 to refer to the first argument, $2, to refer to the second argument, and $3 to refer to the third argument.*

**A: set 5 6 7**

**echo $(($1+$2+$3))**

1. Create a Shell script to clear the screen and then display all users that are currently logged onto the system.

**A: clear**

**w**

1. Write a Bash shell script that will store the full name and age of a user ( define **local** variables) Display the following output using the values of those variables:  
     
    **Your Full Name: (your full name)  
    Your Age: (your age)**  
    **Hello, my name is (your full name), and I am (your age) years old**

**A: fullname=”Simon Tran”**

**age=29**

**echo Your Full name: $fullname**

**echo Your Age: $age**

**echo Hello, my name is $fullname, and I am $age years old**

1. Write all the steps of how you run your scripts.

**A:**

**Open a script file using vim. For example, if the name of the file is “script.sh” and destination is the present working directory, then use command vim script.sh**

**First line of the script must be #!/bin/bash**

**Create the script**

**Save and exit the file**

**Change permission of the file so user has execute access. I.e. chmod u+x script.sh**

**Run script: ./script.sh**