# **Lab 02 – Shell Programming**

**Course:** *OPERATING SYSTEM* 

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## **Exercise 1:**

Write a program let user to enter his name, age. Then, display his entered name and age.

```
Enter name: Long
Enter age: 19
Your name is Long and you are 19 year old.
```

## Exercise 2:

Write a shell script to do following tasks:

- Let user entering a integer number
- Check the value of your integer and show it is negative, zero, positive or positive and greater than 20. Your output should be as followings.

```
Enter your number:
-12
-12 is a negative number

Enter your number:
8
8 is a positive number

Enter your number:
0
0 is zero

Enter your number:
50
50 is a positive number and greater than 20
```

#### Exercise 3:

Write a program to display the date of today and current time in both English and Vietnamese. The output should be something as follows.

```
Wed Feb 11 08:11:57 ICT 2015
Hom nay la thu Tu ngay 11 thang 2 nam 2015. Bay gio la 08:11:57.
```

For better result, you should display time in detail as: 08 gio, 11 phut, 57 giay Exercise 4:

Write a shell script to find the sum: S(n) = 1+2+3+...+n, with **n** is the positive integer that you entered.

```
/bin/sh sum.sh
```

```
Enter n: 5
Result: 1+2+...+5 = 15
```

#### Exercise 5:

Code a program to check the input name is a file, a folder or the other case. If it is a file then display the content of file. If it is a folder then display all files and folders belong to this folder. Moreover, if it is a folder you must display all empty folders in detail and number of empty folders.

```
Please enter file name: afile
afile does not exist, or it is neither an ordinary file not a
directory.
Do you want to continue (y/n)?
Please enter file name: case demo
case demo is an ordinary file.
content of case demo:
222222
333333333333
Do you want to continue (y/n)?
Please enter file name: dir1
dir1 is a directory.
- List subdir and files in dir1:
Desktop Downloads Music newfolder temp test.txt demo.sh dm1.sh
- Empty folders are: (2)
newfolder
temp
Hit <Enter> to continue.
```