YORK UNIVERSITY
LASSONDE SCHOOL OF ENGINEERING
DEPARTMENT OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

EECS 2032 - Introduction to Embedded Systems

Fall 2024

Lab 2

Due Date: Sept 28, 2024

Lab Objectives

- To write the first Bash scripts

Note:

- The red text is what you type and the blue text is the computer response.
- Save all the `.sh` files in a zip folder named Lab2 and submit it on eClass.

Pre-Lab

Review the course slides of Week 2. You may need to refer the course slides of Week 0 to 1, the probability is small though.

Problem 1

Write a bash script, named `lab2_1.sh`, that displays the following message when runs:

```
$ bash lab1_2.sh
Good day, Mr/Ms xxx!  today is yyy.
```

(where `xxx` is the user login name, and `yyy` is the day of the week (Monday, Tuesday, . . .)).

Problem 2

Write a bash script, named `lab2_2.sh`, that displays the first command line parameter, skips the next two, prints a space followed by hyphen and a space, and then displays the fourth to the last command line parameters.

```
$ bash lab2_2.sh kindness is my number one attribute in a human being!
kindness - number one attribute in a human being!
```

Problem 3

Write a shell script, named `lab2_3.sh`, that first checks for the number of command line arguments (all integers). If no command line argument is provided, it displays "No arguments provided." and exits. If it doesn't exit, the script then reads an integer, `x`, from the standard input. If `x` is less than or equal to the number of command line arguments, it displays "The argument at position `x` is: yy", where yy is the command line argument at position `x`. Otherwise, it displays "No parameter has been provided at position `x`".

```
$ bash lab2_3.sh 3 4 5 7
Please enter an integer:  4
The argument at position 4 is:  7.
```

```
$ bash lab2_3.sh 1 7 6
Please enter an integer:  8
No argument has been provided at position 8.
```

```
$ bash lab2_3.sh
No arguments provided.
```