BIL214 - Systems Programming

LAB2

In this lab, you will follow the 2 questions given below step by step. For the first question, write your answers or commands into a file named “q1_<studentid>.txt”. For the second question, you will write a bash script into a file named “q2_<studentid>.sh” and upload your file into the form below. **Do not** write outputs into the file.

Upload Form: https://forms.gle/cTeg8aiceM9qZRS57
Deadline: 18:30 30.09.2021

Open a terminal.

1. **Regular Expressions**
   Download the “lab2_q1.txt” from resources and go to the directory of it.
   a. Write the regex to find numbers with the format (xxx) xxx-xxxx, don’t forget parentheses and the hyphen ('-').
   b. Assume that we do not know if the number we are trying to find contains parenthesis or hyphen (-) Write the regex to find all the cases (whether it contains parentheses and hyphen or not).
   c. Write the regex that matches a word, a dot, a space and a word again. Ex: "first. second "
   d. What should we do if we want to get the last email in the document(not the line containing the last email), which command and parameters can we use? Write the regex.
   e. What is the difference between “[expressions]” and “[exprsion]”?

2. **Bash Script**

Write a bash script that takes zero argument. The script should ask for 2 integers step by step and compare the integers. Then, it should print the comparison result and ask for 2 integers again. The script should terminate when “exit” is entered as the first integer. You can assume that no strings are provided as integers except “exit”.

Example

```
~$ ./q2_111111111.sh
First integer:
5
Second integer:
10
The first integer is less than the second integer.
First integer:
10
Second integer:
5
The first integer is greater than the second integer.
First integer:
5
Second integer:
5
The first integer is equal to the second integer.
First integer:
exit
Exiting program.
~$ ./q2_111111111.sh arg1
No argument should be provided, exiting program.
```