

York University
Lassonde school of Engineering
Dept. of Electrical Engineering and Computer Science
EECS2032
Introduction to Embedded Systems
Fall 2021

EECS2032

Test 1

Thursday Oct 7, 2021

Time 2:30-3:45

SUBMISSION

Submit as. submit EECS2032E LABTEST1 file_name

Problem 1

Quiz on Eclass, available from 2:30-2:45 only

Problem 2. 3 points

Write a bash script that reads an integer (n) and prints on the same line all the perfect squares from 1 to n (inclusive). for example if it reads 63 it prints

1 4 9 16 25 36 49

File name: labtest1_2.sh

Problem 3. 7 points

Write a shell script that takes 4 command line arguments/parameters. the arguments are three integers and a letter ("u" or "d") without the quotes.

If the letter is "u", it prints the three integers on the same line in an ascending order, if the letter is "d" it prints the three integers on the same line in descending order. if the letter is anything else, it prints

Unknown order.

Filename: labtest1_3.sh

Problem 4. 5 points

Consider a file that contains records. Each record consists of the following fields separated by a tab

product name: Any sequence of letters and spaces

Product ID: A sequence of alphanumeric symbols with no white spaces.

Dept: The dept. selling the product (TV, computers, software, ...) format like Product ID

Quantity: The number of units in the inventory

Price: The price of each unit

The program runs with one command line parameter, which is a Dept.

The program displays the total value of the all products in that department

File name labtest1_4.sh

Problem 5. 2 Points

Add to problem 4 such that if the dept is not in the file, it should display

No such Department

File name **labtest1_5.sh**

Problem 6. 3 points

write a sed script to remove the parenthesis in the input file

For example, if the input is: **This is the (input) with parenthesis (with numbers (123) like that**

The output should be: **This is the input with parenthesis with numbers 123 like that**

File name **labtest1_6.sed**