Lab 1 - In Lab Assignment

Due end of the lab session Name: Bibek Dhungana

Acknowledge your collaborators or source of solutions, if any. **Submission by the end of the LAB is required.** Please type your answers, handwritten submission will not be accepted. Do all of the following. A subset of your solutions will be graded.

1) What does the command below do?

>head -3 cs1412.txt

Head is used to read head section of file. By default, it prints 10 lines of code.

So, the above command prints top 3 lines of code of cs 1412.txt.

2) What command to use to copy every file ending ".c" from the home directory to the current working directory?

We can use cp command in Linux.

cp syntax. cp source file destination file

So, we can use following command:

cp ~/*.c. ~for home directory

or we can also do

cp home/*.c.

. denote present working directory in Linux terminal.

```
PS C:\Users\Dhung> cp home/*.c .
PS C:\Users\Dhung>
na
```

3) What is illegal about the following program

```
return 0;
        }
        #define PI 3.14 is preprocessor command for defining constant. So, we should not try to modify it.
        The value of Pi is replaced by preprocessor to 3.14 before compilation.
       Trying to modify it in statement PI = c / (2 * r); is illegal.
    4) Write a program fragment that asks the user to enter 2 integers in two separate lines, then
        displays the summation of these two numbers.
       Sample run given below where the red bold numbers are the input from the
        user: Please enter number 1: 14
        Please enter number 2: 5
        Summation of 14 and 5 is 19
#include <stdio.h>
int main(void) {
  //initializing variables
  int firstNumber, secondNumber, sum;
  //input first Number
  printf("Please enter number 1:");
  scanf("%d",&firstNumber);
  //input second Number
  printf("Please enter number 1:");
  scanf("%d",&secondNumber);
  //finding the sum and printing it.
  sum = firstNumber + secondNumber;
  printf("Summation of %d and %d is %d\n",firstNumber, secondNumber,sum);
```

Output window:

return 0;

}

```
Shell
                                                                                                       clang-7 -pthread -lm -o main main.c

./main

Please enter number 1:14

Please enter number 1:5

Summation of 14 and 5 is 19
#include <stdio.h>
        int main(void) {
          int firstNumber, secondNumber, sum;
         printf("Please enter number 1:");
scanf("%d", &firstNumber);
10
11
          printf("Please enter number 1:");
12
13
          scanf("%d",&secondNumber);
14
15
          //finding the sum and printing it.
         sum = firstNumber + secondNumber;
printf("Summation of %d and %d is %d\n",firstNumber, secondNumber,
16
17
18
19
       return 0;
20
21
```