Lab 1: Working on Linux terminal and writing the first codes in C.

**Task 1:** All of things are done in the shell/terminal. Not in GNU.

1. Open terminal.
2. Check current directory. Please write down the directory.
3. Create new directory named IProgramming in the current directory.
4. Create text file named “helloworld.c” in the created directory. Use text editor nano. (nano helloworld.c)
5. Please write the following code in the text file. Save the text file.

#include<stdio.h>

int main()

{ printf(“hello world”);

return 0;

}

1. Compile this c code. (gcc helloworld.c). If gcc compiler is not available, please install by using this command apt-get install gcc.
2. Run compiled code by using ./a.out.
3. Copy helloworld.c into /var directory. Is there any problem for copying? Define the problem and can you fix it.
4. Run ls –l command in the current directory. Explain the result.
5. Go to /var directory. Run ls –l command in the current directory. Explain the result.

**Task 2:** Install geany text editor and write some code.

1. Make sure geany is installed or not.
2. If not, install geany text editor.
3. Run geany.
4. Please write helloword.c code in Geany. Compile and run it.

**Task 3:** Please access to netacad.com and do following tasks.

1.3.1.1 Just numbers: part 1 [A]

1.3.6.1 Variables: part 1 [A]

1.3.6.3 Variables: part 3 [A]

1.3.6.4 Variables: part 4 [A]

2.1.10.1 Floating point: part 1 [A]

2.1.10.2 Variables: continued [A]

**Task 4:** That program uses the formula Celsus = (5/9) \* (Fahren-32) to print the following results of Fahrenheit temperatures and their centigrade or Celsius equivalents. Compile and run it. Please see the result. Is it similar with the following? If not, please correct the code.

0 -17

20 -6

40 4

60 15

80 26

100 37

120 48

140 60

160 71

180 82

200 93

220 104

240 115

260 126

280 137

300 148