**EEL 2880: Software Techniques**

**Dr. Subbarao V Wunnava Spring 2020: 02 04 2020**

**Programming Project 1: : Chapter 1-6: Controls, Functions**

**[Class 02 13 2020 Thursday delegated for your coordination of the project**]

General: 1) You may form into group/team of no more than 3

2) One project report [hard copy] for the team is required by 02 25 2020 Tuesday, at

The beginning of the class;

3) Put enough comments to make the program flow apparent

4) Provide your flow charting, pseudo code, and the actual C program code and results;

**[Class 02 13 2020 Thursday delegated for your project coordination. No formal Class**]

**Problem1)** (a) Using the **nested for loops**, find the factorials of odd numbers between 13 – 1 and even numbers between 2 – 14.

(b) Find squares of all numbers between + 14 to – 14 : Design your square function;

(c ) Find cubes of all numbers between – 14 to +14 : Design your cube function;

(d) Find 5th power of all numbers between – 14 to +14 using the above square/cube . . functions;

**Problem 2)Repeat problem 1[ (a) –(d)] with while loops, switch statements or methods of your choice;**

**Problem 3):** **Provide an alternate solution methodology, and actual functional program for your alternate solution and results;**

Provide a clear analysis and reasoning why your alternate program is more efficient, easy to maintain, more secure and faster; Give your reasons.

GOOD Luck:

Courtesy: Voluntary Teaching Assistants: Mr. Carlos Velez, Mr. Tony Rubio, Mr. Mike Abadia