Lab 7

Task 25

Change the following program such that it will find and print out the biggest value in the array *value*.

Requirements:

- The line in red cannot be changed; all others can be modified (including function) n name)
- After calling the sub-function, value of each element in array value should be **SAME** as before the call. The biggest value is returned by the sub function.

```
void exchange(float a[], int n); // function prototype
int main(){
    float value[4] = \{2.5, 1, 1.2, 5.2\};
    exchange(value, 4);
    printf("value[0] = %f", value[0]);
    return 0;
void exchange(float a[], int n){
    float temp;
    temp = a[0];
    a[0] = a[n - 1];
    a[n-1] = temp;
```

Task 26

Write a program that includes two functions: main function and Fac(int n). Function main reads a positive integer n, and calls the function Fac to compute the factorial number of n. Do not refer to the function in the lecture 7 note.

Task 27

Write a program that includes two functions: main function and Power3 (int n). Function main reads a positive inte ger, and call the function Power3 to compute 3^n and print out the result. Power3 (int n) must be a recursive function.

Add info about a program

At the top of each program, add the information (comments in GREEN). It is also required for EACH lab program in this semester.

```
// Programmer: .....
// Student ID: .....
// Date:....
// Task no: Week_#_Task_#
// Requirements: .....
#include<stdio.h>
int main()
{
    ......
}
```

Submission

- Compressed *.cpp into one file with file name in the format Lab7_######.zip and submit it into iSpace.
- All .cpp files must be able to run under Visual 2010 C++ Express. The outputs will be checked against the outputs under Visual 2010 C++ Express