▶Exercise

▶i學園繳交作業於今日23:59前
分數打八折

課程小助教 (+5%)

- 第一排：蕭名哲 110310105
- 第二排：林晟彥 110310114
- 第三排：謝旻烜 110310128
- 第四排：劉千榮 110310138
- 第五排：盧楷勛 110310144
- 第六排：盧奕帆 107310217
- 游　擊：張兆欣 107310217
- 　　　　蔡瑋傑 110310123
- 　　　　吳孟容 110310122

Exercise1 - Add two numbers by bitwise operation

▸ Please Add two numbers without using arithmetic operators.

▸ Write a function Add() that returns sum of two integers. The function should not use any of the arithmetic operators (+, ++, −, -, .. etc).

▸ ※Sum of two bits can be obtained by performing XOR (^) of the two bits.
　Carry bit can be obtained by performing AND (&) of two bits.

result:

```
Please enter two numbers:
number1 : 25
number2 : 75
The added number is : 100
```

The function add() should use:

```
int Add(int x, int y)
{
    while (y != 0)
    {
        unsigned carry = x & y;
        .......
    }
    return x;
}
```

Exercise2 - file I/O: case study

▸ Please enter 8 Students score and show the result down below in the file called " test.txt " (test.txt must be a blank file at the beginning).

Use the format:

```
FILE* fp;
int test[NUM];
int max, min;
int i, j;

fp = fopen("test.txt", "w");

if (fp == NULL) {
    printf("File could not be opened\n");
    return 1;
}
```

result:

```
Microsoft Visual Studio 偵錯主控台
Please enter 8 Students score:
Student1: 99
Student2: 88
Student3: 77
Student4: 66
Student5: 55
Student6: 98
Student7: 87
Student8: 76

Access complete!
```

```
test - 記事本
檔案(F)  編輯(E)  格式(O)  檢視(V)  說明
Student1      99
Student2      88
Student3      77
Student4      66
Student5      55
Student6      98
Student7      87
Student8      76

Highest score: 99
Lowest score: 55
```

Wk14_ex1.txt

Wk14_ex2.txt