VNU-HCM UNIVERSITY OF SCIENCE

CTT10009 – COMPUTER SYSTEM

REPORT
EXERCISE #2

TEACHER: LE VIET LONG

TEACHER: PHAM TUAN SON

STUDENT: PHUNG QUOC TUAN

ID: 19127616

I.   Self-assess completed requirements.

No.	Task		State	%
1	1. Use bit processing techniques to write a program that implements the following requirements:	Enter the signed integer X (4 bytes), "read" the binary bit sequence of X and output it to the screen.	Done	30
2		Given a 1-dimensional array A consisting of 32 elements that are 0 or 1. Construct a 4-byte integer X with the same bits as the elements of array A, then output X to the screen.	Done	30
3	2. Write a program Input two 8-bit bit sequences (in 2's complement form). Please perform addition, subtraction, multiplication and division on the 2 entered bit sequences (Note: follow the learned algorithm).		Done	30
7	Write report		Done	10
Total				100

Overall rating of completion of submission: perfect (100%)

II.   Assignment results

1.   Requirement 1.

```
d:\Study\Computer-System\Lab2>cd "d:\Study\Computer-System\Lab2\" && g++ main1.cpp -o main1 && "d:\Study\Computer-System\Lab2\"main1
Nhap so nguyen X: 2016
Day bit cua so nguyen X: 00000000000000000000011111100000
Nhap 32 phan tu 0 hoac 1 de tao mang bit:
Nhap bit thu 1: 1
Nhap bit thu 2: 1
Nhap bit thu 3: 1
Nhap bit thu 4: 1
Nhap bit thu 5: 1
Nhap bit thu 6: 1
Nhap bit thu 7: 0
Nhap bit thu 8: 0
Nhap bit thu 9: 0
Nhap bit thu 10: 0
Nhap bit thu 11: 0
Nhap bit thu 12: 1
Nhap bit thu 13: 1
Nhap bit thu 14: 1
Nhap bit thu 15: 1
Nhap bit thu 16: 1
Nhap bit thu 17: 1
Nhap bit thu 18: 1
Nhap bit thu 19: 1
Nhap bit thu 20: 1
Nhap bit thu 21: 1
Nhap bit thu 22: 1
Nhap bit thu 23: 1
Nhap bit thu 24: 1
Nhap bit thu 25: 1
Nhap bit thu 26: 1
Nhap bit thu 27: 1
Nhap bit thu 28: 1
Nhap bit thu 29: 1
Nhap bit thu 30: 1
Nhap bit thu 31: 1
Nhap bit thu 32: 0
So nguyen duoc tao tu mang bit: -65011714
Day bit cua so nguyen vua tao: 11111100000111111111111111111110
```

2.   Requirement 2.

```
D:\Study\Computer-System>cd "d:\Study\Computer-System\Lab2\" && g++ main2.cpp -o main2 && "d:\Study\Computer-System\Lab2\"main2
Nhap 2 so nguyen 8 bit:
2023
2024
Day bit cua so nguyen 1: 00010111
Day bit cua so nguyen 2: 00010100
Tong 2 so nguyen: 00101011
Hieu 2 so nguyen: 00000011
Tich 2 so nguyen: 11001100
Thuong 2 so nguyen: 00000001
```