Lab 2-2

Lab 2-2

- 1. Sign in a new GitLab server
- 2. Do Lab 2-4

Evaluation criteria

Category	Evaluation	
2-4	100	
Total	100	

Use GCC 4.8 version or 5.4 version. No score will be given if the gcc version is different.

Lab2

• You should finish the first problem (Lab 2–4) during the lab session and submit it to the git. You can leave for home after confirm it with the TA.

• Folder name: Lab2

Input 2 integers as argument input.

execute 5 functions.

- 1. IsZero
- 2. Equal
- 3. Successor
- 4. Add
- 5. Subtract

```
ds2018@ds2018-VirtualBox:~/Desktop/DS_lab/ADT_w3$ ./p3_1 14 2147483647
Is 14 zero? False
Is 2147483647 zero? False
Does 14 equal 2147483647? False
14's next number is 15
2147483647's next number is 2147483647
14 + 2147483647 = 2147438647
14 - 2147483647 = 0
```

- 1. IsZero; if x is zero return True, if not return false
- 2. Equal; If x is equal to y, return True. If not, return False.
- 3. Successor; If x+1 is smaller than INT_MAX, return x+1. If not, return x.
- 4. Add; If x+y is smaller than INT_MAX, return x+y. If not, return INT_MAX.
- 5. Subtract; If x is larger than y, return x-y. If not, return 0.

- program name : p2_4.c
- data structure: integer
- input: 2 integers separated by space.
- output: result of 5 functions
- condition: 2147438647 is integer's max number. It can not be increased.

```
#include
int Zero();
bool IsZero(int);
bool Equal(int, int);
int Successor(int);
int Add(int, int);
int Subtract(int, int);
int main(int argc, char** args)
        int x = atoi(args[1]);
        int y = atoi(args[2]);
        printf("
                           %s\n",x,IsZero(x) ?
                                                              ");
");
        printf("
                           %s\n",y,IsZero(y) ?
                         equal %d? %s\n",x,y,Equal(x,y)?
                                                                     lse");
        printf("
       printf("%d's
                                   %d\n",x,Successor(x));
                                   %d\n",y,Successor(y));
        printf("%d'
        printf("%d + %d = %d\n", x, y, Add(x,y));
        printf("%d - %d = %d\n", x, y, Subtract(x,y));
        return 0;
```

Git Usage

Add all files in the directory to git

```
$ git add.
```

\$ git status

```
MINGW64:/c/Users/yesol_000/project/2017_CSE2010_20160000007Assig... — 
yesol_000@P67CX MINGW64 ~/project/2017_CSE2010_20160000000/Assignment0 (master)
$ git add .
warning: LF will be replaced by CRLF in Assignment0/test.c.
The file will have its original line endings in your working directory.

yesol_000@P67CX MINGW64 ~/project/2017_CSE2010_20160000000/Assignment0 (master)
$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes to be committed:
   (use "git reset HEAD <file>..." to unstage)
   new file: test.c
```

Git Usage

Commit file (Save to local repository 지역 저장소에 저장)

```
$ git commit -m "[commit log message]"
```

\$ git push origin master

```
MINGW64:/c/Users/yesol_000/project/2017_CSE2010_20160000000/TestProject1 (master)

yesol_000@P67CX MINGW64 ~/project/2017_CSE2010_20160000000/TestProject1 (master)

$ git commit -m "test commit"

[master e8563f5] test commit

1 file changed, 1 insertion(+), 1 deletion(-)

yesol_000@P67CX MINGW64 ~/project/2017_CSE2010_2016000000/TestProject1 (master)

$ git push origin master

(Counting objects: 4, done.
Writing objects: 100% (4/4), 305 bytes | 0 bytes/s, done.
Total 4 (delta 0), reused 0 (delta 0)

To http://gitlab.pess.hanyang.ac.kr/2017_CSE2010/2017_CSE2010_2016000000.git

4655cae..e8563f5 master -> master

yesol_000@P67CX MINGW64 ~/project/2017_CSE2010_2016000000/TestProject1 (master)

$ |
```

※ Commit log message should be write in detail
 로그 메시지는 최대한 자세히 작성할 것.
 ex) This is a program that prints

a message "hello world"