

UNIT TESTING REPORT

- Makefile for testing:

```
projtest: testdriver.o name.o testsuite.o
    gcc -o ../bin/projtest.exe ../obj/testdriver.o ../obj/testsuite.o ../obj/name.o -lcunit

testdriver.o: ../src/testdriver.c
    gcc -o ../obj/testdriver.o -c ../src/testdriver.c -lcunit

testsuite.o: ../src/testsuite.c
    gcc -o ../obj/testsuite.o -c ../src/testsuite.c -lcunit

name.o: ../src/namepass.c
    gcc -o ../obj/name.o -c ../src/namepass.c

t1.o: ../src/test_name_pass.c
    gcc -o ../obj/t1.o -c ../src/test_name_pass.c -Wall
```

- CUnit Report:

```
CUnit - A unit testing framework for C - Version 2.1-3
http://cunit.sourceforge.net/

Suite: Name valid or invalid
  Test: test of validName() in normal cases ...passed
  Test: test of invalidName() in error cases ...passed
Suite: Name valid or invalid
  Test: test of validPass() in normal cases ...passed
  Test: test of invalidPass() in error cases ...passed

Run Summary:
  Type      Total    Ran  Passed  Failed  Inactive
  suites         2      2     n/a      0        0
  tests          4      4      4      0        0
  asserts        8      8      8      0     n/a

Elapsed time =    0.000 seconds
```

INTEGRATION TESTING REPORT

- Makefile for testing:

```
server: smain.o
    gcc ../obj/smain.o -o ../bin/server

client: cmain.o
    gcc ../obj/cmain.o ../header/cheader.h -o ../bin/client

smain.o: ../src/smain.c
    gcc ../src/smain.c -c -Wall -o ../obj/smain.o

cmain.o: ../src/cmain.c
    gcc ../src/cmain.c -c -Wall -o ../obj/cmain.o
```

- On basis of connectivity :

```
USER@DESKTOP-DI40DVI ~/InstantChatt
$ ./client.exe 8080
Please enter your name: Lee
Please enter your password: lee55
ERROR: connect
```

- On the basis of arguments :

- Invalid:

```
USER@DESKTOP-DI40DVI ~/InstantChatt
$ ./server.exe
Usage: ./server <port>
```

- Valid:

```
USER@DESKTOP-DI40DVI ~/InstantChatt
$ ./client.exe
Usage: ./client <port>
```

- On the basis of user input :

- User Name :

```
USER@DESKTOP-DI40DVI ~/InstantChatters/CUT/Code/bin
$ ./client.exe 8080
Please enter your name: L
Name must be less than 30 and more than 2 characters.
```

- **User Password :**

```
USER@DESKTOP-DI40DVI ~/InstantChatters/CUT/Code/bin
$ ./client.exe 8080
Please enter your name: Licency
Please enter your password: v
Password must be less than 30 and more than 2 characters.
```