

CN Lab Assignment- SSS - NITW GDB 27- 8 -2023

Saturday **Sunday** **Special** of 27- 8 – 2023

NITW-GDB server:

Assume your junior has written a simple program P.cpp, for reading two numbers printing sum of them, reading two numbers printing difference of them and reading two numbers printing product of them. You have to compile it and check for its correct execution.

Processes: GDB server S, Client C, Program Process P.

Files in use :

program code file : P.cpp ,

input test case file containing six numbers : IT.txt

Output test case file containing three numbers: OT.txt

Output file generated by P.exe process: Pout.txt

Scenario:

S opens and waits on famous FIFO.

C opens and sends P.cpp to S on the same famous FIFO.

S reads P.cpp and compiles it to P.exe

S forks.

S parent should wait for the child termination.

In child code of S:

Open file IT.txt with itfd.

Open file Pout.txt with poutfd.

dup2(itfd,0) , dup2(poutfd,1)

exec("P.exe")

// The P.exe process reads input(cin) from IT.txt and writes output(cout) to Pout.txt.

S parent code :

Open files Pout.txt(created by P.exe) and file OT.txt (the expected output) and compare them.

If both are same send message "test case passed" to client C.

C displays the received message.

(note : Any other logics of your own can also be followed/allowed)

Week days are working days
Weekends are hard working days

- KR

Let Careful of "OWN"

Get Successful "WON"

Own code of Now

To be one of Won

~ KR