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SAP ID : 55859

SECTION : SE 5-2

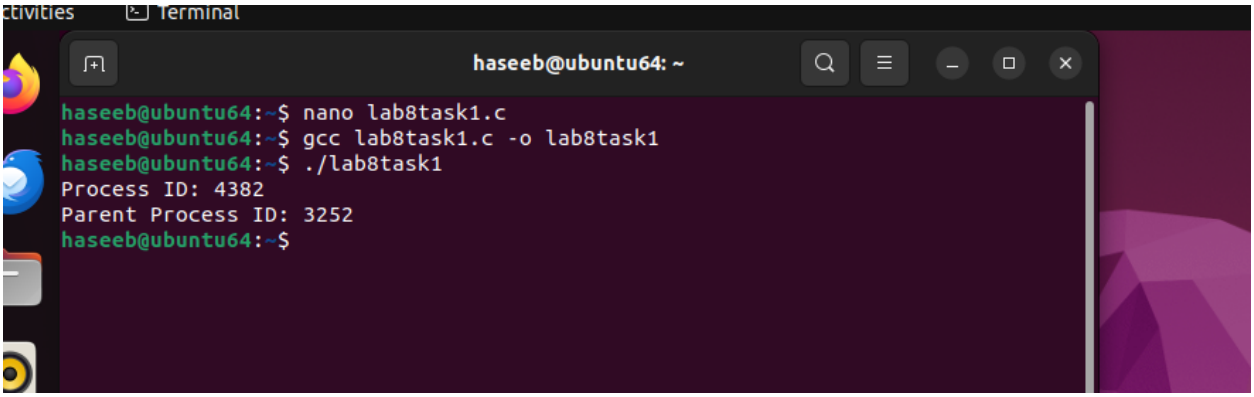
LAB TASK : 08

TASK : 01

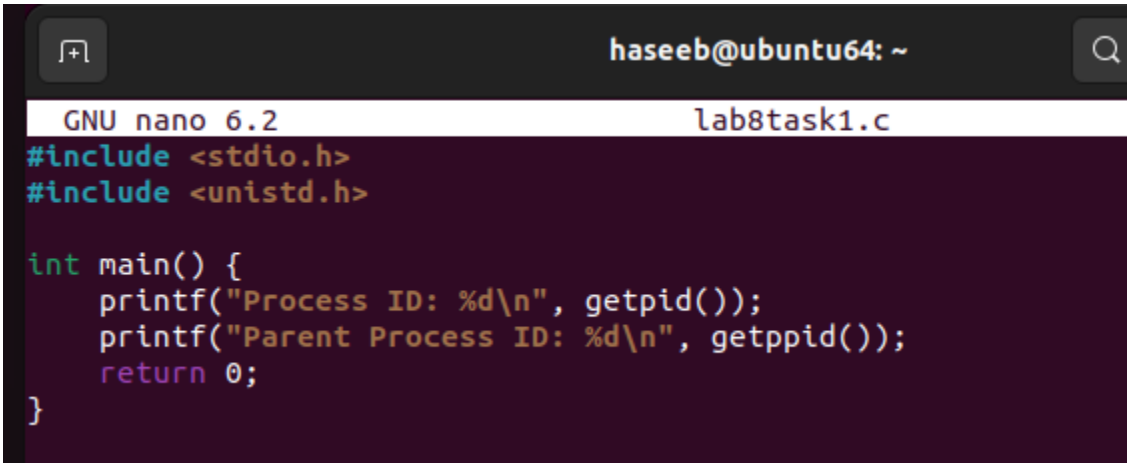
The following program prints process, and parent Ids. Execute this program and saved with named **lab8task1.JAVA**

ANSWER :

STEP : 01



STEP :02

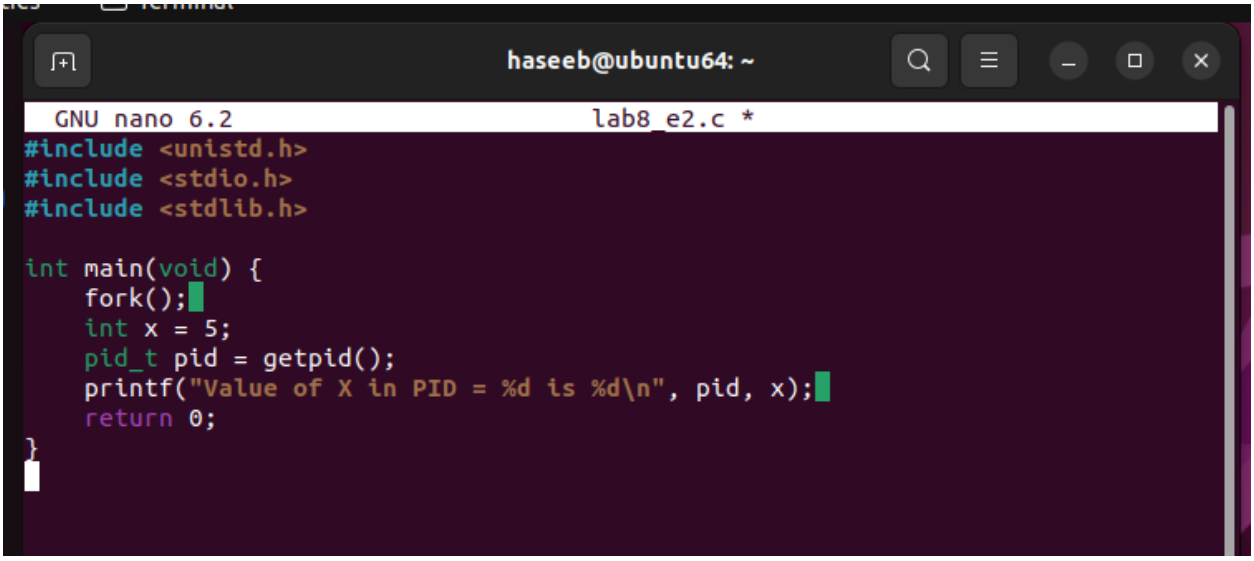


TASK : 02

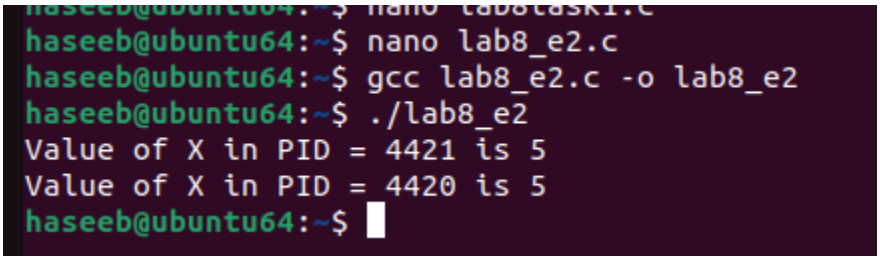
Run following program and save it with named **lab8_e2.c.**

ANSWER :

STEP : 01



STEP : 02



TASK : 03

Run following program and save it with named **lab8_e3.c.**

ANSWER:

STEP : 01

haseeb@ubuntu64: ~

GNU nano 6.2 lab8_e3.c *

```c
#include <unistd.h>
#include <stdio.h>
#include <stdlib.h>
#include <sys/types.h>

int main(void) {
    fork();
    pid_t pid = getpid();
    int i;
    for (i = 1; i <= 200; i++) {
        printf("This line is from PID %d, value = %d\n", pid, i);
    }
    return 0;
}
```

STEP : 02

```
This line is from PID 4453, value = 178
This line is from PID 4453, value = 179
This line is from PID 4453, value = 180
This line is from PID 4453, value = 181
This line is from PID 4453, value = 182
This line is from PID 4453, value = 183
This line is from PID 4453, value = 184
This line is from PID 4453, value = 185
This line is from PID 4453, value = 186
This line is from PID 4453, value = 187
This line is from PID 4453, value = 188
This line is from PID 4453, value = 189
This line is from PID 4453, value = 190
This line is from PID 4453, value = 191
This line is from PID 4453, value = 192
This line is from PID 4453, value = 193
This line is from PID 4453, value = 194
This line is from PID 4453, value = 195
This line is from PID 4453, value = 196
This line is from PID 4453, value = 197
This line is from PID 4453, value = 198
This line is from PID 4453, value = 199
This line is from PID 4453, value = 200
haseeb@ubuntu64:~$
```

TASK : 04

Write a code in your terminal and compile it and show the output.

ANSWER :

STEP : 01

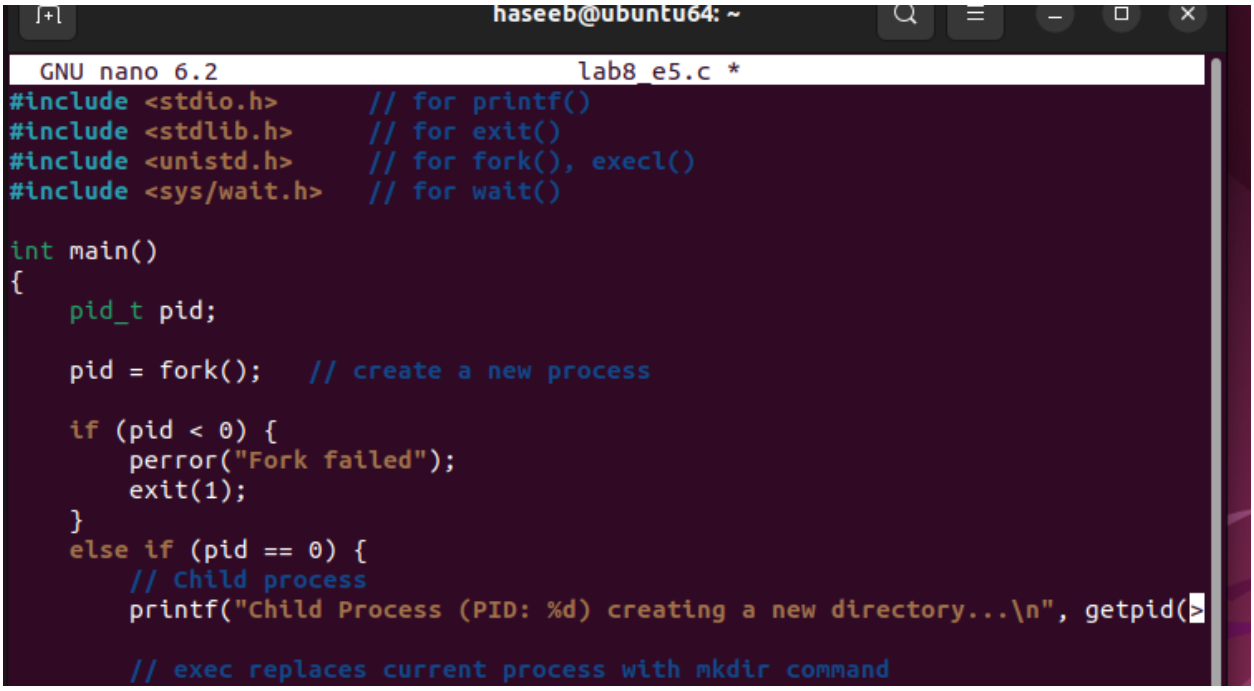
```
haseeb@ubuntu64:~$ nano lab8_e4.c
haseeb@ubuntu64:~$ gcc lab8_e4.c -o lab8_e4
haseeb@ubuntu64:~$ ./lab8_e4
This is the Child Process (PID: 4874)
Child executing command: ls -l
Parent Process (PID: 4873) waiting for child...
total 168
```

TASK : 05

Try to implement following code and save your program with named **lab8_e5.c**

ANSWER :

STEP : 01



STEP 02 :

```
haseeb@ubuntu64:~$ nano lab8_e5
haseeb@ubuntu64:~$ nano lab8_e5.c
haseeb@ubuntu64:~$ gcc lab8_e5.c -o lab8_e5
haseeb@ubuntu64:~$ ./lab8_e5
Child Process (PID: 4921) creating a new directory...
Parent Process (PID: 4920) waiting for child...
mkdir: cannot create directory ‘newdir’: File exists
Parent Process: Child finished.
haseeb@ubuntu64:~$
```