EXPERIMENT 8

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SUBJECT: ESRTOS

AIM: Write a C program to print Child and Parent PID and PPID

THEORY: fork() is the primary method of process creation on Unix-like operating systems. This function creates a new copy called the child out of the original process, that is called the parent. When the parent process closes or crashes for some reason, it also kills the child processes.

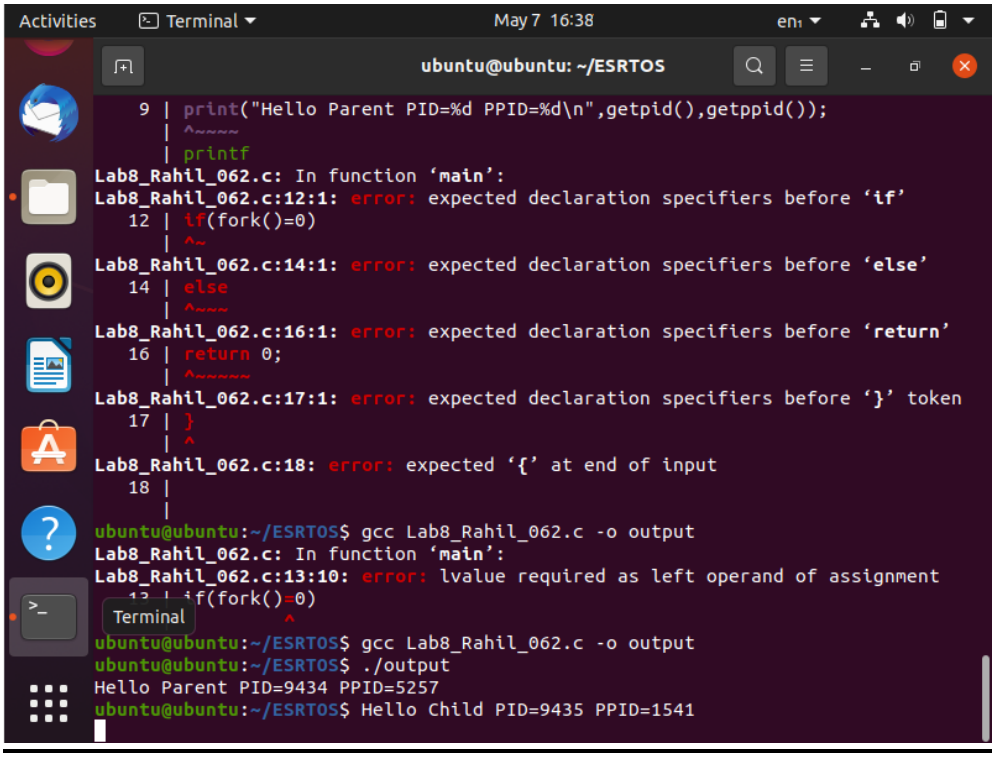
PID stands for Process ID, Which means Identification Number for currently running process in Memory.

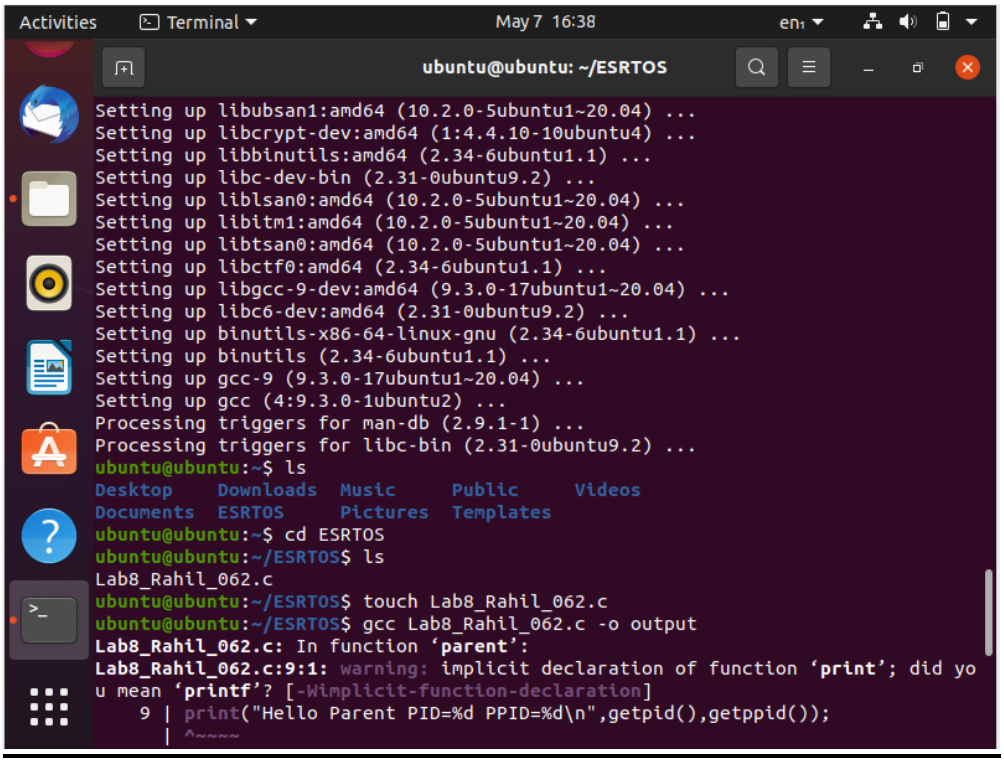
PPID stands for Parent Process ID, Which means Parent Process is the responsible for creating the current process(Child Process). Through Parent Process, The child process will be created.

CODE OF THE PROGRAM:

```
# include <stdio.h>
#include<sys/types.h>
#include<unistd.h>
void child()
{
printf("Hello Child PID=%d PPID=%d\n", getpid() , getppid() );
}void parent()
{
printf("Hello Parent PID=%d PPID=%d\n", getpid() , getppid() );
}
int main()
{
if(fork()==0)
child();
else
parent();
return 0;
}
```

SCREENSHOTS OF THE OUTPUT OF THE PROGRAM:





CONCLUSION: From this program we learnt the fork() statement function in C and about PID and PPID.