



EXPERIMENT 9

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ROLL NO.: 2021A1R156

SUBJECT: OPERATING SYSTEM

SEMESTER: 3rd

COURSE CODE: COM-312

CO-ORDINATER:

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Experiment 9:

Write a program in C that creates a child process, waits for the termination of the child and lists its PID.

Command: nano filename.c

Program: #include<unistd.h>

#include<sys/types.h>

#include<stdio.h>

#include<sys/wait.h>

int main()

{

pid_t p;

printf("before fork\n"); p=fork();

if(p==0)

{

printf("I am child having id %d\n",getpid()); printf("My parent's id is %d\n",getppid());

}

else

{

```
wait(NULL);

printf("My child's id is %d\n",p);

printf("I am parent having id %d\n",getpid());

}

printf("Common\n");

}
```

Terminal: gcc filename.c

./a.out

```
#include<unistd.h>
#include<sys/types.h>
#include<stdio.h>
#include<sys/wait.h>
int main()
{
    pid_t p;
    printf("before fork\n");
    p=fork();
    if(p==0)
    {
        printf("I am child having id %d\n",getpid());
        printf("My parent's id is %d\n",getpid());
    }
    else
    {
        wait(NULL);
        printf("My child's id is %d\n",p);
        printf("I am parent having id %d\n",getpid());
    }
    printf("Common\n");
}
```

```
sudanshi@sudanshi:~/Desktop$ nano exp9.c
sudanshi@sudanshi:~/Desktop$ gcc exp9.c
sudanshi@sudanshi:~/Desktop$ ./a.out
before fork
I am child having id 3142
My parent's id is 3142
Common
My child's id is 3142
I am parent having id 3141
Common
```