



EXPERIMENT 9

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CSE SEM 3

OPERATING SYSTEM (COM-312)

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");  
}
```

```
#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");  
}
```

```
vanshak@HP-laptop:/mnt/d$ nano exp9.c  
vanshak@HP-laptop:/mnt/d$ gcc exp9.c  
vanshak@HP-laptop:/mnt/d$ ./a.out  
before fork  
I am child having id 162  
My parent's id is 161  
Common  
My child's id is 162  
I am parent having id 161  
Common
```