## OS EXPERIMENT NO: 3

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SE-9

Roll No: 10

AIM: Create a child process in Linux using the fork system call. From the child process obtain the process ID of both child and parent by using getpid and getppid system call. Explore wait, getpid, getuid, getgid getegid, geteuid and waitpid before termination of process

CODE:

```
GNU nano 4.9.3 exp3.c Modified
#include<stdio.h>
#include<unistd.h>
void main()
{
int pid,ppid,n=4,key=7,i,a[4]={1,2,3,7};
ppid=getppid();
```

```
pid=fork();
if(pid<0)
{
printf("\n\n\n");
printf("Error Creating Child Process\n");
}
else if (pid==0)
{
printf("\n\n\n");
printf("Process id:\t%d\n",grtpaid());
printf("Parent Process id:\t%d\n",getppid());
printf("PPid :\t%d\n",ppid);
}
else
{
printf("\n\n\nLinear Search Program \n\n\n");
for(i=0;i<n;i++)
{
if(a[i]==key)</pre>
```

```
GNU nano 4.9.3
                                                         exp3.c
                                                                                                    Modified
pid=fork();
if(pid<0)
printf("\n\n\n");
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printf("\n\n\n");
printf("Process id:\t%d\n",grtpaid());
printf("Parent Process id:\t%d\n",getppid());
printf("PPid :\t%d\n",ppid);
else
printf("\n\n\nLinear Search Program \n\n\n");
for(i=0;i<n;i++)</pre>
if(a[i]==key)
printf("Element %d found at %d position\n",key,i+i);
                                                        ^K Cut Text ^J Justify
^U Paste Text^T To Spell
^G Get Help
^X Exit
                  ^O Write Out ^W Where Is
                                                        ^K Cut Text
                                                                                             ^C Cur Pos
                   ^R Read File ^\ Replace
                                                                                                 Go To Line
 £
```

```
for(i=0;i<n;i++)
{
  if(a[i]==key)
{
  printf("Element %d found at %d position\n",key,i+i);
}
}
}</pre>
```

## OUTPUT:

```
Process id: 180
Parent Process id: 179
PPid: 62
Element 7 found at 6 position
localhost:~#
```