PRACTICAL 2

Write a program using the folloeing system calls of UNIX operating system: fork, exec, getpid, exit, wait, stat, readdir, opendir.

Aim:

Task-01 Write a program to execute fork() and find out the process id by getpid() system call.

Program:

File 1: prac2.c

```
  GNU nano 5.3                                prac2.c
//execute fork() and exec() system calls and find process id with the getpid() system call

#include<stdio.h>
#include<unistd.h>

void main(){

        fork();
        printf("Hello World\n");
        printf("Child Processs ID: %d\nParent Process ID: %d\n",getpid(),getppid());
        printf("I am xyz.c called by execvp()\n");
        printf("I am xyz.c called by execv()\n");
        printf("I am xyz.c called by execlp()\n");
        printf("I am xyz.c called by execvpe()\n");
        printf("I am xyz.c called by execle()\n");
        printf("I am xyz.c called by execl()\n");
}
```

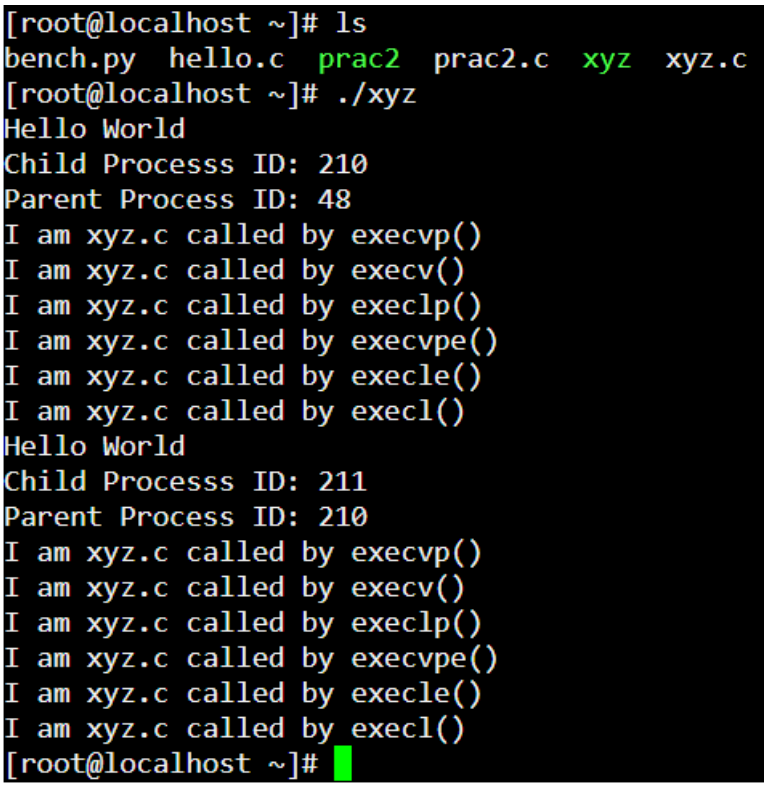
File 2: xyz.c

```
  GNU nano 5.3                                  xyz.c
#include<stdio.h>
#include<stdlib.h>
#include<unistd.h>

int main(){

        char *args[]={"./prac2",NULL};
        execvp(args[0],args);
        execv(args[0],args);
        execlp(args[0],args);
        execvpe(args[0],args);
        execle(args[0],args);
        execl(args[0],args);
        printf("End-----\n");
        return 0;
}
```

Output:



Conclusion:

In this practical we have learnt about fork(), getpid() and getppid(), exec() system calls.