Sidharth

2K18/MC/114

Experiment 3

Aim: Write a C program that creates a new child process. The child process should be assigned to do the task of finding the length of your name.

Code:

```
// Program to find length of the string  "name.c"
#include <stdio.h>
#include <unistd.h>
#include <sys/wait.h>

int  main(){
   char  name[30];
   printf("Enter your name: ");
   fgets(name, 30, stdin);
   int count = 0;
   for(int  i=0; name[i] != '\0'; i++)  count++;
   printf("Your Name contains: %d characters\n", count);
```

```
    return  0;
}

// Program for Child Process "P3.c"
#include <sys/types.h>
#include <stdio.h>
#include <unistd.h>
#include <sys/wait.h>

int main(){
    pid_t pid;
    pid = fork();
    if (pid < 0){
        fprintf(stderr, "Fork Failed");
        return 1;
    }
    else if (pid == 0){

execlp("/mnt/c/Users/Sidharth/os/name.out","./mnt/c/Users/Sidharth
/os/name.out",NULL);
    }
    else{
        wait(NULL);
```

```
        printf("Child Complete");
    }
    return 0;
}
```

Output: