WEEK 7

Write a C program to create a child process and allow the parent to display child to display “child” on the screen.

Program

```
#include <stdio.h>
#include <sys/types.h>
#include <sys/wait.h>
#include <stdlib.h>
#include <unistd.h>

int main(void) {
    pid_t pid;
    int status;

    printf("Hello World!\n");

    pid = fork();

    if (pid == -1) {
        perror("bad fork");
        exit(1);
    }

    if (pid == 0) {
        printf("I am the child process.\n");
    } else {
        waitpid(pid, &status, 0); /* parent waits for child to finish */
        printf("I am the parent process.\n");
    }

    return 0;
}
```

Output

```
student@ubutnu:$gcc –o child.out child.c
student@ubutnu: ./child.out
Hello World!
I am the child process.
I am the parent process
```

Write a C program to create a Zombie process.

Program

```
#include <stdlib.h>
#include <sys/types.h>
#include <unistd.h>
int main ()
{
 int pid_t child_pid;
 child_pid = fork ();
 if (child_pid > 0) {
  sleep (60);
 }
 else {
  exit (0);
 }
 return 0;
}
```

Output

s@ubuntu:~$gcc zombie.c
guest-glcbIs@ubuntu:~$./a.out
Then command prompt will wait for some time(60 sec) and then again command prompt will appear later.

THANK YOU