

The background features a complex geometric pattern of overlapping triangles. A solid purple triangle is positioned on the left side. The rest of the background is composed of various shades of grey and white triangles, creating a dynamic, low-poly aesthetic.

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

THANK YOU