

The background features a series of overlapping triangles in shades of purple and grey. A solid purple triangle is positioned on the left side. The rest of the background is composed of various grey triangles of different sizes and orientations, creating a complex geometric pattern.

WEEK 6

Write a C program to emulate the Unix ls-l command.

Program

```
#include <stdio.h>
#include <unistd.h>
#include <sys/types.h>
#include <sys/wait.h>
#include <stdlib.h>
int main()
{
    int pid;          //process id
    pid = fork();     //create another process if ( pid < 0 )
    {
        //fail
        printf("\nFork failed\n");
        exit (-1);
    }
    else if ( pid == 0 )
    {
        //child
        execlp ( "/bin/ls", "ls", "-l", NULL ); //execute ls
    }
    else
    {
        //parent
        wait (NULL); //wait for child
        printf("\nchild complete\n");
        exit (0);
    }
}
```

Output

```
guest-glcbls@ubuntu:~$gcc -o lsc.out lsc.c
guest-glcbls@ubuntu:~$./lsc.out
total 100
-rwxrwx—x 1 guest-glcbls guest-glcbls 140 2012-
07-06 14:55 f1
drwxrwxr-x 4 guest-glcbls guest-glcbls 140 2012-
07-06 14:40 dir1
child complete
```

Write a C program to list for every file in a directory, its inode number and file name.

Program

```
#include<stdlib.h>
#include<stdio.h>
#include<string.h>
main(int argc, char *argv[])
{
    char d[50];
    if(argc==2)
    {
        bzero(d,sizeof(d));
        strcat(d,"ls ");
        strcat(d,"-i ");
        strcat(d,argv[1]);
        system(d);
    }
    else
        printf("\nInvalid No. of inputs");
}
```

Output

```
student@ubuntu:~$ mkdir dd
student@ubuntu:~$ cd dd
student@ubuntu:~/dd$ cat >f1
hello
^Z
student@ubuntu:~/dd$ cd
student@ubuntu:~$ gcc -o flist.out flist.c
student@ubuntu:~$ ./flist.out dd
hello
46490 f1
```

Write a C Program that demonstrates redirection of standard output to a file. EX:: ls>f1.

Program

```
#include<stdlib.h>
#include<stdio.h>
#include<string.h>
main(int argc, char *argv[])
{
    char d[50];
    if(argc==2)
    {
        bzero(d,sizeof(d));
        strcat(d,"ls ");
        strcat(d,"> ");
        strcat(d,argv[1]);
        system(d);
    }
    else
    printf("\nInvalid No. of inputs");
}
```

Output

```
student@ubuntu:~$ gcc -o std.out std.c
student@ubuntu:~$ ls
downloads  documents  listing.c  listing.out  std.c  std.out
student@ubuntu:~$ cat > f1
^Z
student@ubuntu:~$ ./std.out f1
student@ubuntu:~$ cat f1
downloads
documents
listing.c
listing.out
std.c
std.out
```

The background features a light gray field with several overlapping triangles in various shades of gray. In the top right corner, there is a grid of black dots that tapers off towards the right edge.

THANK YOU