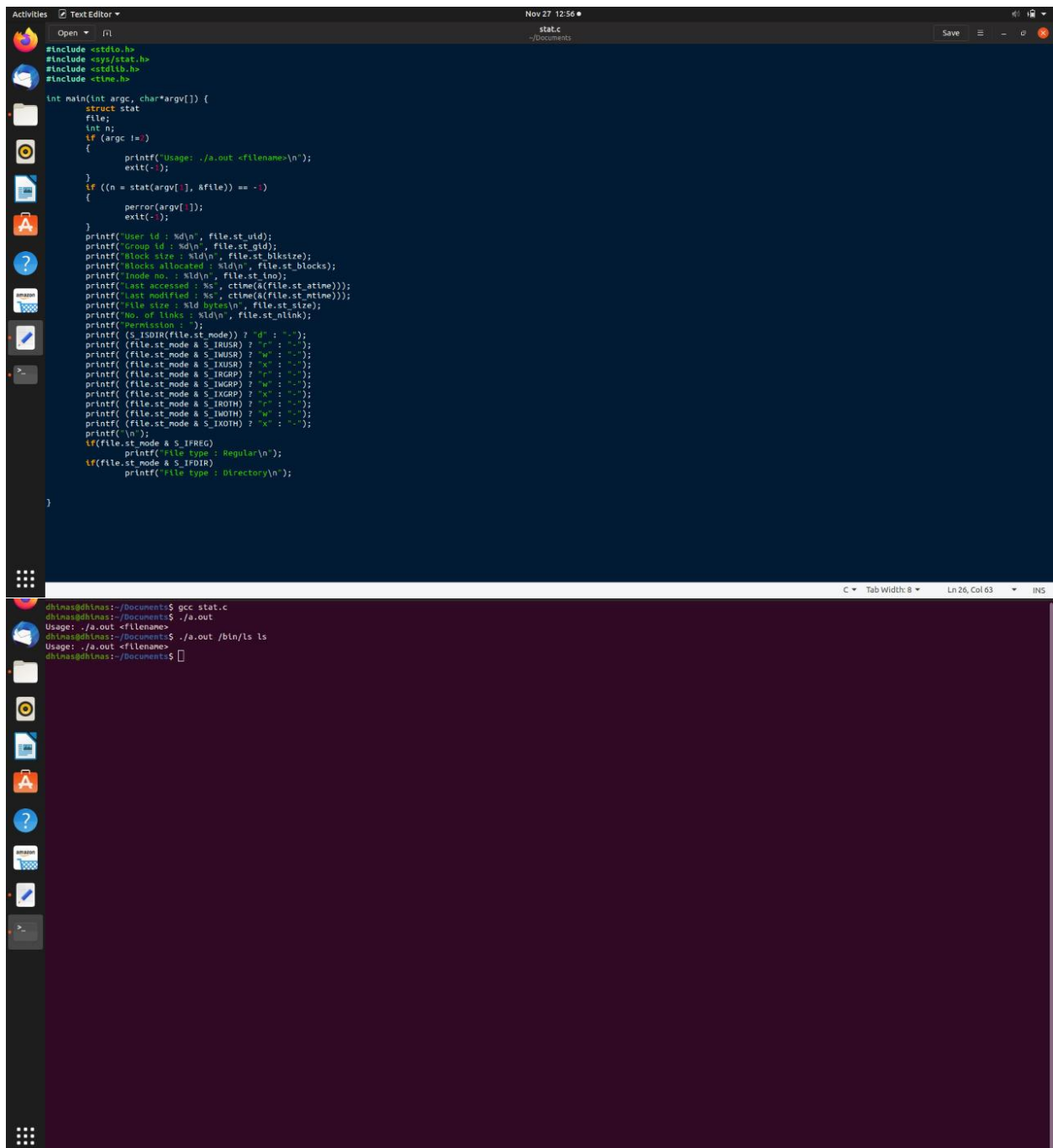


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## LANJUTAN MODUL 8



The screenshot displays a Linux desktop environment. The top panel shows the date and time as Nov 27 12:56. The main workspace contains two windows. The top window, titled 'stat.c', is a text editor showing the source code of a C program that uses the `stat` system call to display file metadata. The code includes headers for `stdio.h`, `sys/stat.h`, `stdlib.h`, and `time.h`. It defines a `main` function that takes command-line arguments and prints various file statistics such as user ID, group ID, block size, and permissions. The bottom window is a terminal with the command prompt `dhtnas@dhtnas:~/Documents$`. It shows the compilation of `stat.c` using `gcc`, followed by running the resulting executable `./a.out` with various file paths as arguments. The terminal output shows the program's usage instructions and the file statistics for the specified paths.

```
Activities Text Editor Nov 27 12:56
stat.c
~/Documents
Save

#include <stdio.h>
#include <sys/stat.h>
#include <stdlib.h>
#include <time.h>

int main(int argc, char*argv[]) {
    struct stat
    file;
    int n;
    if (argc != 1)
    {
        printf("Usage: ./a.out <filename>\n");
        exit(-1);
    }
    if ((n = stat(argv[1], &file)) == -1)
    {
        perror(argv[1]);
        exit(-1);
    }
    printf("User id : %d\n", file.st_uid);
    printf("Group id : %d\n", file.st_gid);
    printf("Block size : %d\n", file.st_blksize);
    printf("Blocks allocated : %d\n", file.st_blocks);
    printf("Inode no. : %d\n", file.st_ino);
    printf("Last accessed : %s", ctime(&(file.st_atime)));
    printf("Last modified : %s", ctime(&(file.st_mtime)));
    printf("File size : %d bytes\n", file.st_size);
    printf("No. of links : %d\n", file.st_nlink);
    printf("Permission : ");
    printf(" (%s_ISDIR(file.st_mode)) ? 'd' : '-');
    printf(" (file.st_mode & S_IRUSR) ? 'r' : '-');
    printf(" (file.st_mode & S_IWUSR) ? 'w' : '-');
    printf(" (file.st_mode & S_IXUSR) ? 'x' : '-');
    printf(" (file.st_mode & S_IRGRP) ? 'r' : '-');
    printf(" (file.st_mode & S_IWGRP) ? 'w' : '-');
    printf(" (file.st_mode & S_IXGRP) ? 'x' : '-');
    printf(" (file.st_mode & S_IROTH) ? 'r' : '-');
    printf(" (file.st_mode & S_IWOTH) ? 'w' : '-');
    printf(" (file.st_mode & S_IXOTH) ? 'x' : '-');
    printf("\n");
    if (file.st_mode & S_IFREG)
        printf("File type : Regular\n");
    if (file.st_mode & S_IFDIR)
        printf("File type : Directory\n");
}

dhtnas@dhtnas:~/Documents$ gcc stat.c
dhtnas@dhtnas:~/Documents$ ./a.out
Usage: ./a.out <filename>
dhtnas@dhtnas:~/Documents$ ./a.out /bin/ls ls
Usage: ./a.out <filename>
dhtnas@dhtnas:~/Documents$
```

Activities Text Editor Nov 27 13:32 •

Open [1] dirlist.c ~/Downloads/Modul8 Save

```
#include <stdio.h>
#include <dirent.h>
#include <stdlib.h>

int main(int argc, char*argv[]) {
    struct dirent *dptr;
    DIR *dname;

    if (argc != 2)
    {
        printf("Usage: ./a.out <dirname>\n");
        exit(-1);
    }
    if ((dname = opendir(argv[1])) == NULL)
    {
        perror(argv[1]);
        exit(-1);
    }
    while (dptr=readdir(dname)) {
        printf("%s\n", dptr->d_name);
    }
    closedir(dname);
}
```

C Tab Width: 8 Ln 4, Col 34 INS

dhlnas@dhlnas:~/Documents\$ gcc dirlist.c
dhlnas@dhlnas:~/Documents\$ ls
a.out dirlist.c 'Modul 9' sadf.c stat.c
dhlnas@dhlnas:~/Documents\$ ./a.out
Usage: ./a.out <dirname>
dhlnas@dhlnas:~/Documents\$ ./a.out /bin/ls ls
Usage: ./a.out <dirname>
dhlnas@dhlnas:~/Documents\$