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Kelas : C

TUGAS MODUL 8

Kodingan Stat.c

```c
#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 != 2)
    {
        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: %ld\n", file.st_blksize);
    printf("Blocks allocated: %ld\n", file.st_blocks);
    printf("Inode no. : %ld\n", file.st_ino);
    printf("Last accesed: %s", ctime(&(file.st_atime)));
    printf("Last modifled: %s", ctime(&(file.st_mtime)));
    printf("File size: %ld bytes\n", file.st_size);
    printf("No. of links: %ld\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" : "-");
```

```c
    }
    printf("User id: %d\n", file.st_uid);
    printf("Group id: %d\n", file.st_gid);
    printf("Block size: %ld\n", file.st_blksize);
    printf("Blocks allocated: %ld\n", file.st_blocks);
    printf("Inode no. : %ld\n", file.st_ino);
    printf("Last accesed: %s", ctime(&(file.st_atime)));
    printf("Last modified: %s", ctime(&(file.st_mtime)));
    printf("File size: %ld bytes\n", file.st_size);
    printf("No. of links: %ld\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");
}
```

Kodingan dirlist.c

```c
#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);
}
```

Output

```
User id: 1000
Group id: 1000
Block size: 4096
Blocks allocated: 8
Inode no. : 21250625
Last accesed: Mon Dec  2 11:28:16 2019
Last modified: Mon Dec  2 11:25:39 2019
File size: 1475 bytes
No. of links: 1
```