

OS ASSIGNMENT – 5

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SECTION : G

Q. Write a c program to change the permissions of files in a directory created after a certain date. Inputs to the program : directory, date and new permissions to be set as run time arguments.

CODE :

```
#include<stdio.h>

#include<dirent.h>

#include<sys/types.h>

#include<sys/stat.h>

#include<time.h>

#include<string.h>

#include<stdlib.h>

int main(){

    DIR *dir;

    struct dirent *dirent;

    struct stat statbuf;

    char path[100];

    char date[100];

    printf("Enter the path: ");

    scanf("%s", path);
```

```

printf("Enter the date in dd/mm/yyyy format: ");
scanf("%s", date);
printf("Enter access modes as a 4 digit number:");
int mode = scanf("%d", &mode);
dir = opendir(path);
if(dir == NULL)
{
    printf("Error in opening the directory\n");
    return 1;
}
while((dirent = readdir(dir)) != NULL)
{
    if(stat(dirent->d_name,&statbuf) == -1)
    {
        printf("Error in stat\n");
        return 1;
    }
    if(strcmp(date,ctime(&statbuf.st_ctime)) <= 0)
    {
        printf("%s\n", dirent->d_name);
        chmod(path, mode);
    }
}
closedir(dir);
return 0;
}

```

OUTPUT :

