## **OPERATING SYSTEM - CS23431**

## **EXP 12**

# FILE ORGANISATION TECHNIQUE – SINGLE AND TWO LEVEL DIRECTORY

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## **PROGRAM:**

# Single level directory:

```
#include <stdio.h>
struct directory {
char dname[20];
char fname[10][20];
int f count;
};
int main()
struct directory d;
printf("Enter directory name: ");
scanf("%s",d.dname);
printf("Enter number of files in the directory: ");
scanf("%d",&d.f count);
printf("Enter names for files:\n");
for(int i=0;i<d.f count;i++)
printf("Enter name for file %d: ",i+1);
scanf("%s",d.fname[i]);
printf("\n\t\t%s\n",d.dname);
for (int j = 0; j \le i; j++) {
printf("\t | \n");
printf("tt --> (%s)\n", d.fname[j]);
printf("\n");
```

```
return 0;
}
```

## **OUTPUT:**

```
Enter directory name: SUBJECTS
Enter number of files in the directory: 2
Enter names for files:
Enter name for file 1: JAVA

SUBJECTS
| --> (JAVA)

Enter name for file 2: PYTHON

SUBJECTS
| --> (JAVA)

| --> (PYTHON)
```

## Two level directory:

```
#include <stdio.h>
#include<string.h>
struct directory {
char dname[20];
char subnames[10][20];
int sub_count;
};
int main()
struct directory d;
struct directory sub[10];
printf("Enter the name of dir/file(under null): ");
scanf("%s",d.dname);
printf("How many users(for %s): ",d.dname);
scanf("%d",&d.sub count);
for(int i=0;i<d.sub count;i++)
printf("Enter the name of dir/file(under %s): ",d.dname);
scanf("%s",d.subnames[i]);
printf("How many users(for %s): ",d.subnames[i]);
```

```
scanf("\%d", \&sub[i].sub\_count); \\ strcpy(sub[i].dname, d.subnames[i]); \\ for (int j = 0; j < sub[i].sub\_count; j++) \{ \\ printf("Enter name of dir/file(under %s): ", sub[i].dname); \\ scanf("%s", sub[i].subnames[j]); \\ \} \\ for (int i = 0; i < d.sub\_count; i++) \{ \\ for (int j = 0; j < sub[i].sub\_count; j++) \{ \\ printf("\t | %s | n", d.dname); \\ printf("\t | %s | n", sub[i].dname); \\ printf("\t | %s | n", sub[i].dname); \\ printf("\t | n"); \\ printf("\t | %s | n", sub[i].subnames[j]); \\ \} \\ printf("\t | n"); \\ return 0; \\ \} \\
```

## **OUTPUT:**