OPERATING SYSTEM - CS23431

EXP 12

FILE ORGANISATION TECHNIQUE – SINGLE AND TWO LEVEL DIRECTORY

NAME: Dhanvin PR **ROLL NO:** PROGRAM: 230701071 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++)</pre> 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 <= i; j++) { printf("\t\t |\n"); $printf("\t --> (\%s)\n", d.fname[j]);$ 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++)</pre>
     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\t | %s |\n", d.dname);
        printf("\t\t | \n");
        printf("\t\t | \n");
        printf("\t\t | \n");
        printf("\t\t | \n");
        printf("\t\t ( %s )\n", sub[i].subnames[j]);
    }
    printf("\n");
}
return 0;
}</pre>
```

OUTPUT: