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\s\n",d.dname);
     for (int j = 0; j \le i; j++) {
        printf("\backslash t \backslash t | \backslash n");
        printf("\t \sim (\%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 | \%s |\n", sub[i].dname);
        printf("\t\t | \n");
        printf("\t\t ( %s )\n", sub[i].subnames[j]);
    }
    printf("\n");
}
return 0;</pre>
```

OUTPUT: