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 <= i; j++) { printf("\t\t |\n");

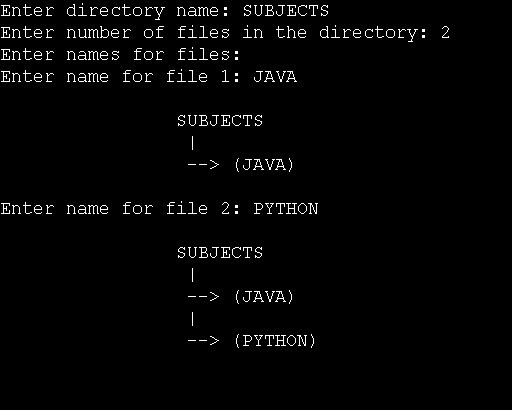
printf("\t\t --> (%s)\n", d.fname[j]);

} printf("\n");

} return 0;

}

OUTPUT:



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\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; }

OUTPUT:

