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NAME: ARUN MC
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ROLL NO: 230701036

Exp:12 <u>File Organization Technique – Single and Two level Directory</u>

Aim:

To implement File Organization Structures in C are

- a. Single Level Directory
- **b.** Two-Level Directory
- c. Hierarchical Directory Structure
- d. Directed Acyclic Graph Structure

CODE:

A) Single Level Program:

```
#include<stdio.h> int main(){
int n,i;
char files[10][20];
printf("Enter the number of files:"); scanf("%d",&n);
for(i=0;i<n;i++){
printf("Enter the file %d:",i+1); scanf("%s",files[i]); printf("\nRoot Directory\n"); for(int j=0;j<=i;j++){
printf("|\n--> %s\n",files[j]);
}
printf("\n");
}
return 0;
}
```

```
Enter the number of files:2
Enter the file 1:J

Root Directory
|
--> J

Enter the file 2:B

Root Directory
|
--> J
|
--> B
```

B) Two Level Directory Structure

Program:

```
#include
<stdio.h>
#include
<string.h>
int main() {
  char root[20], subdir[20],
  file[20]; int subCount,
  fileCount;
  printf("Enter the name of dir/file (under null):
  "); scanf("%s", root);
  printf("How many users (for %s): ",
  root); scanf("%d", &subCount);
  if (subCount > 0) {
    printf("Enter name of dir/file (under %s): ",
    root); scanf("%s", subdir);
    printf("How many files (for %s): ", subdir);
    scanf("%d", &fileCount);
```

```
if (fileCount > 0) {
      printf("Enter name of dir/file (under %s): ",
      subdir); scanf("%s", file);
    }
  }
  printf("
  n%s\n
  ", root);
  if
  (subCo
  unt > 0)
  {
    printf("
    |\n%s\n",
    subdir); if
    (fileCount >
    0) {
      printf(" |\n%s\n", file);
    }
  }
  return 0;
}
```

OUTPUT:

```
Enter the name of dir/file (under null): Hai
How many users (for Hai): 1
Enter name of dir/file (under Hai): Hello
How many files (for Hello): 1
Enter name of dir/file (under Hello): Welcome

Hai
|
Hello
|
Welcome
```