

WEEK-8

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SEC: O-14

DFS problem 01:

```
#include<stdio.h>
void DFS(int);
int G[15][15], visited[15], n;
void main(){
    int i,j;
    printf("Enter Number of Sub-office:");
   scanf("%d",&n);
    printf("\nEnter Their Connection using Matrix:\n");
   for(i=0; i<n; i++){
   for(j=0; j<n; j++){
   scanf("%d",&G[i][j]);
   }
 }
    for(i=0; i<n; i++){
   visited[i]=0;
  }
    DFS(0);
}
void DFS(int i){
    int j;
   printf("\n%d",i);
    visited[i]=1;
   for(j=0; j<n; j++){
   if(!visited[j]\&\&G[i][j]==1)\{\\
    DFS(j);
   }
```

```
}
}
DFS problem 02:
#include<stdio.h>
void DFS(int);
int G[15][15], visited[15], n;
void main(){
    int i,j;
    printf("Enter number of Cloths:");
   scanf("%d",&n);
    printf("\nTheir Connection:\n");
   for(i=0; i<n; i++){
   for(j=0; j<n; j++){
   scanf("%d",&G[i][j]);
   }
 }
   for(i=0; i<n; i++){
   visited[i]=0;
   }
    DFS(0);
}
void DFS(int i){
    int j;
   printf("\n%d",i);
    visited[i]=1;
   for(j=0; j<n; j++){
    if(!visited[j]\&\&G[i][j] == 1)\{\\
```

```
DFS(j);
}
}
```