EXPERIMENT 7:

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SY IT 22

AIM:Implementation of any one Graph Traversal Technique for rea1-world application.

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CODE:
#include<stdio.h>
#include<stdlib.h>
int source, V, E, time, visited [20], G[
void DFS(int i)
{
int j;
visited [i]=1;
printf("%d->",i+1);
for(j=0;j<V;j++)
```

```
if(G[i][j]==1&&visited[j]==0)
DFS(j);
int main()
int i,j,v1,v2;
printf("\t\t\Graphs\n");
printf("Enter the number of edges:");
scanf("%d",&E);
printf("Enter the number of vertices:");
scanf("%d",&V);
for(i=0;i<V;i++)
```

```
for(j=0;j<V;j++)
G[i][j]=0;
}
for(i=0;i<E;i++)
{
printf("Enter the edges(format: V1,V2) : ");
scanf("%d%d",&v1,&v2);
G[v1-1][v2-1]=1;
}
for(i=0;i<V;i++)
{
for(j=0;j<V;j++)
printf("%d",G[i][j]);
printf("\n");
```

