EXPERIMENT NO.8.1

GRAPH TREE:

```
#include<iostream>
#define max 250
using namespace std;
class Graph
       int a[max][max],n;
       public:
       void Insert(){
             int i,j;
              cout<<"Enter Number of Vertices:";
              cin>>n;
              cout<<"( 1:Yes AND 0:NO )\n";
             for(i=0;i< n;i++){
                     for(j=0;j< n;j++){
                            cout<<"Is There Edge Between "<<i+1<<" and "<<j+1<<":";
                            cin>>a[i][j];
                     cout<<endl;
             }
      }
      void DispEdges(){
              int i,j;
              cout<<"List of Edges: ";
             for(i=0;i< n;i++){
                     for(j=0;j< n;j++){
                            if(a[i][j]==1)
                                   cout<<"( "<<i+1<<" , "<<j+1<<" ),\t";
                     cout<<endl;
             }
             cout<<endl;
      }
       void menu(){
            int ch;
       do{
```

```
cout<<"\n*****MENU******"<<endl
                    <="1.Accept Adj. Matrix."<<endl
                     <<"2.Display Édges."<<endl
                  <<"3.Exit"<<endl
                    <="\t\tEnter Your Choice :";
                cin>>ch;
           switch(ch){
                  case 1:
                                 Insert();
                         break;
                     case 2:
                                 DispEdges();
                            break;
                  case 3:
                         break;
                     default:cout<<"Wrong Option \n";</pre>
            }while(ch!=3);
      }
}g;
int main()
{
      g.menu();
}
OUTPUT:
```

```
******MENU*****

1.Accept Adj. Matrix.
2.Display Edges.
3.Exit

Enter Your Choice :2

List of Edges: (1,1), (1,3), (1,5), (2,1), (3,1), (3,3), (2,5), (3,1), (3,3), (4,1), (4,2), (4,5), (5,1), (5,2), (5,3),

******MENU*****

1.Accept Adj. Matrix.
2.Display Edges.
3.Exit

Enter Your Choice :3
root@mca32-OptiPlex-390:/home/mca32#
```