11 Yashraj Deepak Devrat

```
#include<iostream>
#include<string.h>
using namespace std;
class flight
{
     public:
          int am[10][10];
               char city_index[10][10];
          flight();
          int create();
          void display(int city_count);
};
flight::flight()
     int i,j;
    for(i=0;i<10;i++)
     {
          strcpy(city_index[i],"xx");
    for(i=0;i<10;i++)
```

```
for(j=0;j<10;j++)
         {
              am[i][j]=0;
    }
}
int flight::create()
{
    int city_count=0,j,si,di,wt;
     char s[10],d[10],c;
     do
     {
         cout<<"\n\tEnter Source City : ";
         cin>>s;
         cout<<"\n\tEnter Destination City: ";
         cin>>d;
         for(j=0;j<10;j++)
         {
              if(strcmp(city_index[j],s)==0)
              break;
         if(j==10)
         {
              strcpy(city_index[city_count],s);
              city_count++;
         }
```

```
for(j=0;j<10;j++)
              if(strcmp(city_index[j],d)==0)
              break;
         }
         if(j==10)
              strcpy(city_index[city_count],d);
              city_count++;
         }
         cout<<"\n\t Enter Distance From "<<s<" And
"<<d<<": ";
         cin>>wt;
         for(j=0;j<10;j++)
         {
              if(strcmp(city_index[j],s)==0)
                   si=j;
              if(strcmp(city_index[j],d)==0)
                   di=j;
         }
```

```
am[si][di]=wt;
          cout<<"\n\t Do you want to add more
cities.....(y/n): ";
          cin>>c:
     }while(c=='y'||c=='Y');
return(city_count);
void flight::display(int city_count)
{
     int i,j;
     cout<<"\n\t Displaying Adjacency Matrix :\n\t";</pre>
     for(i=0;i<city_count;i++)</pre>
          cout<<"\t"<<city_index[i];
     cout<<"\n";
     for(i=0;i<city_count;i++)</pre>
     {
          cout<<"\t"<<city index[i];
          for(j=0;j<city_count;j++)</pre>
               cout<<"\t"<<am[i][j];
          cout<<"\n";
     }
int main()
```

```
{
    flight f;
    int n,city count;
     char c;
     do
     {
         cout<<"\n\t*** Flight Main Menu *****";
         cout<<"\n\t1. Create \n\t2. Adjacency Matrix\n\t3.
Exit";
         cout<<"\n\t....Enter your choice : ";</pre>
         cin>>n;
         switch(n)
         {
              case 1:
                        city_count=f.create();
                        break:
              case 2:
                        f.display(city_count);
                        break;
              case 3:
                        return 0;
         cout<<"\n\t Do you Want to Continue in Main
Menu....(y/n): ";
         cin>>c;
    }while(c=='y'||c=='Y');
    return 0;
```



