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CLASS: SE COMPUTER
DIV: A
BATCH: B3
ASSIGNMENT NO:6
CODE:-
#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()
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int city_count=0,j,si,di,wt;
char s[10],d[10],c;
do
    cout<<"\n\tEnter Source City : ";</pre>
    cin>>s;
    cout<<"\n\tEnter Destination City : ";</pre>
    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;
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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];</pre>
     cout<<"\n";
    for(i=0;i<city_count;i++)</pre>
         cout<<"\t"<<city_index[i];</pre>
         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 *****";
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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;
OUTPUT:-
    ***** Flight Main Menu *****
    1. Create
    2. Adjacency Matrix
    3. Exit
    .....Enter your choice: 1
    Enter Source City
                        : pune
    Enter Destination City: wai
    Enter Distance From pune And wai: 123
    Do you want to add more cities....(y/n): y
    Enter Source City
                        : wai
    Enter Destination City: goa
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Enter Distance From wai And goa: 456
Do you want to add more cities....(y/n): y
Enter Source City
                   : goa
Enter Destination City: pali
Enter Distance From goa And pali: 1456
Do you want to add more cities.....(y/n): n
Do you Want to Continue in Main Menu....(y/n): y
***** Flight Main Menu *****
1. Create
2. Adjacency Matrix
3. Exit
.....Enter your choice: 2
Displaying Adjacency Matrix:
            wai goa pali
    pune
        0 1230 0
pune
wai 0
        0 4560
            0 1456
goa 0
pali 0 0 0
               0
Do you Want to Continue in Main Menu....(y/n): y
***** Flight Main Menu *****
1. Create
2. Adjacency Matrix
3. Exit
.....Enter your choice: 3
```