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**19L1316**

**EE-2B2**

**CODE ITC LAB FAINAL**:

#include <iostream>

using namespace std;

char matrix[13][6];

void displayMat(char mat[][6])

{

for (int i = 0; i < 13; i++)

{

for (int j = 0; j < 6; j++)

{

cout<<matrix[i][j];

}

cout<<endl;

}

}

int main()

{

//initialize matrix all empty

for (int i = 0; i < 13; i++)

{

for (int j = 0; j < 6; j++)

{

matrix[i][j] = '\*';

}

}

displayMat(matrix);

//ask user to select seat

char classtype;

int col, row = 0;

char choice = 'Y';

while(choice == 'y' || choice == 'Y')

{

cout<<"Please enter the ticket type. Please enter f or F for first class, b or B for business class, or e or E for economy class"<<endl;

cin>>classtype;

while(classtype != 'b' && classtype != 'B' && classtype != 'f' && classtype != 'F' && classtype != 'e' && classtype != 'E')

{

cout<<"wrong input entered. Please enter the ticket type. Please enter f or F for first class, b or B for business class, or e or E for economy class"<<endl;

cin>>classtype;

}

cout<<"enter desired row and seat number. Row numbers are between 1 and 13 and seat number is between 1 and 6"<<endl;

cin>>row>>col;

while(row < 1 || row > 13)

{

cout<<"Row number incorrect. Please enter valid row number. Row numbers are between 1 and 13";

cin>>row;

}

while(col < 1 || col > 6)

{

cout<<"wrong seat number entered. Please enter a valid seat number. Seat numbers are between 1 and 6";

cin>>col;

}

if(matrix[row-1][col-1] == 'X')

{

cout<<"Seat filled"<<endl;

}

else

{

cout<<"Seat Assigned"<<endl;

matrix[row - 1][col - 1] = 'X';

}

displayMat(matrix);

cout<<"Do you want to reserve more seats? Press y or Y for yes. Press n or N for no"<<endl;

cin>>choice;

}

}

**OUTPUT:**

