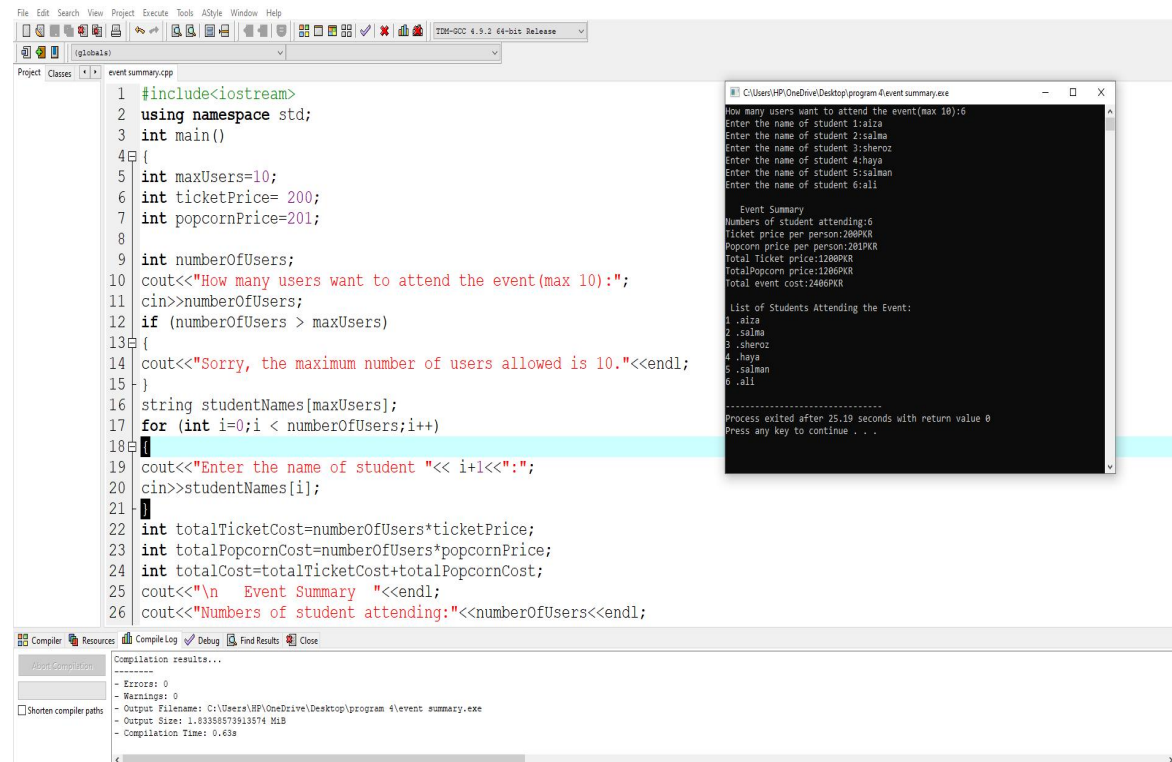


question1



The screenshot shows a C++ IDE with the source code for 'event summary.cpp' and its execution output in a separate window.

Source Code (event summary.cpp):

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int maxUsers=10;
6     int ticketPrice= 200;
7     int popcornPrice=201;
8
9     int numberOfUsers;
10    cout<<"How many users want to attend the event(max 10):";
11    cin>>numberOfUsers;
12    if (numberOfUsers > maxUsers)
13    {
14        cout<<"Sorry, the maximum number of users allowed is 10."<<endl;
15    }
16    string studentNames[maxUsers];
17    for (int i=0;i < numberOfUsers;i++)
18    {
19        cout<<"Enter the name of student "<< i+1<<":";
20        cin>>studentNames[i];
21    }
22    int totalTicketCost=numberOfUsers*ticketPrice;
23    int totalPopcornCost=numberOfUsers*popcornPrice;
24    int totalCost=totalTicketCost+totalPopcornCost;
25    cout<<"\n Event Summary "<<endl;
26    cout<<"Numbers of student attending:"<<numberOfUsers<<endl;
```

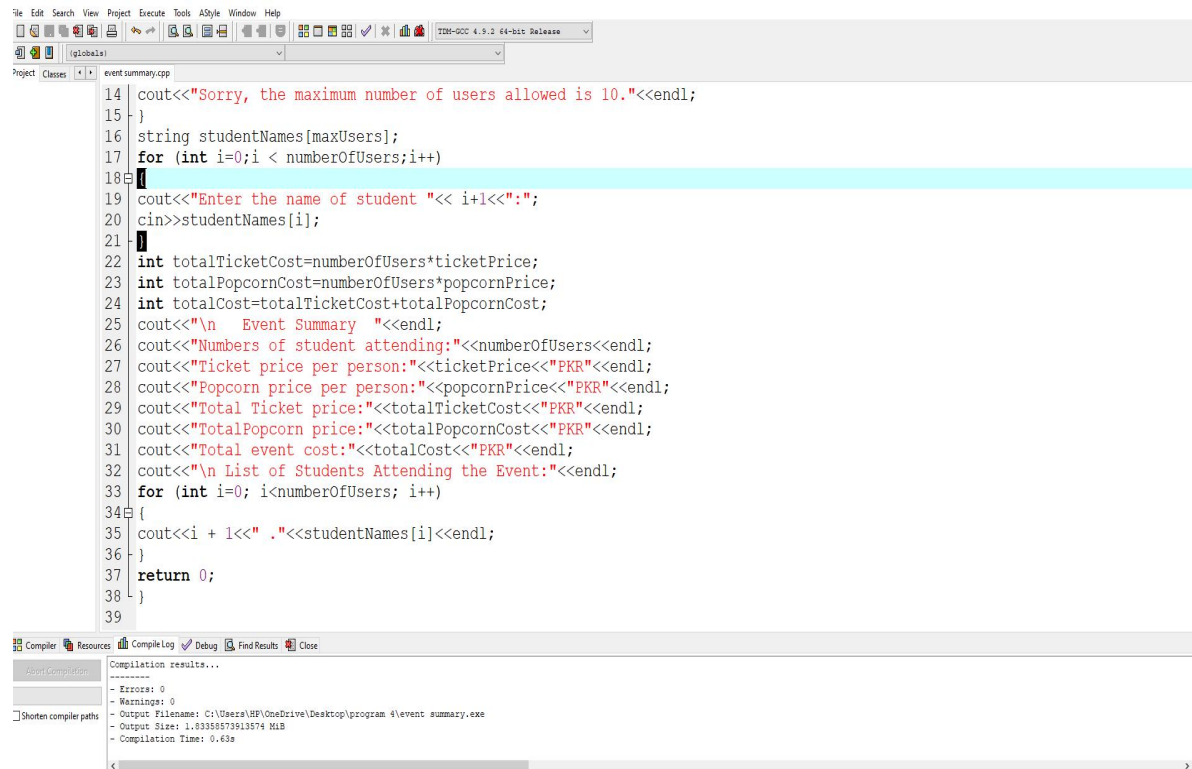
Execution Output (event summary.exe):

```
How many users want to attend the event(max 10):6
Enter the name of student 1:aira
Enter the name of student 2:salma
Enter the name of student 3:sheroz
Enter the name of student 4:haya
Enter the name of student 5:salman
Enter the name of student 6:ali

Event Summary
Numbers of student attending:6
Ticket price per person:200PKR
Popcorn price per person:201PKR
Total ticket price:1200PKR
Total popcorn price:1206PKR
Total event cost:2406PKR

List of Students Attending the Event:
1 .aira
2 .salma
3 .sheroz
4 .haya
5 .salman
6 .ali

.....
Process exited after 25.19 seconds with return value 0
Press any key to continue . . .
```



The screenshot shows a C++ IDE with the source code for 'event summary.cpp'.

Source Code (event summary.cpp):

```
14    cout<<"Sorry, the maximum number of users allowed is 10."<<endl;
15 }
16 string studentNames[maxUsers];
17 for (int i=0;i < numberOfUsers;i++)
18 {
19     cout<<"Enter the name of student "<< i+1<<":";
20     cin>>studentNames[i];
21 }
22 int totalTicketCost=numberOfUsers*ticketPrice;
23 int totalPopcornCost=numberOfUsers*popcornPrice;
24 int totalCost=totalTicketCost+totalPopcornCost;
25 cout<<"\n Event Summary "<<endl;
26 cout<<"Numbers of student attending:"<<numberOfUsers<<endl;
27 cout<<"Ticket price per person:"<<ticketPrice<<"PKR"<<endl;
28 cout<<"Popcorn price per person:"<<popcornPrice<<"PKR"<<endl;
29 cout<<"Total Ticket price:"<<totalTicketCost<<"PKR"<<endl;
30 cout<<"Total Popcorn price:"<<totalPopcornCost<<"PKR"<<endl;
31 cout<<"Total event cost:"<<totalCost<<"PKR"<<endl;
32 cout<<"\n List of Students Attending the Event:"<<endl;
33 for (int i=0; i<numberOfUsers; i++)
34 {
35     cout<<i + 1<<" . "<<studentNames[i]<<endl;
36 }
37 return 0;
38 }
39 }
```

Question2

```

1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int maxStudents=15;
6     int entryfee=150;
7     int snackCost=50;
8     int numberOfStudents;
9     cout<<" How many students will attend the game night? (max 10):"<<endl;
10    cin>>numberOfStudents;
11    if (numberOfStudents>maxStudents)
12    {
13        cout<<"Error:Not more students allowed."<<endl;
14        return 0;
15    }
16    string studentNames[maxStudents];
17    int totalCostAllStudents=0;
18    {
19        for (int i=0;i< numberOfStudents;i++)
20        {
21            cout<<"Enter name for a student:"<<i+1<<":";
22            cin>>studentNames[i];
23            int totalCostPerStudent=entryfee+snackCost;
24            totalCostAllStudents+=totalCostPerStudent;

```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\OneDrive\Desktop\program 4\game night.exe
- Output Size: 1.83358573913574 MiB
- Compilation Time: 1.00s

```

C:\Users\HP\OneDrive\Desktop\program 4\game night.exe
How many students will attend the game night? (max 10):
3
Enter name for a student:1:ali
Total cost for all :200PKR
Enter name for a student:2:ayesha
Total cost for ayesha :200PKR
Enter name for a student:3:hamad
Total cost for hamad :200PKR

user names for the event
User 1 :ali
User 2 :ayesha
User 3 :hamad

Total cost of all students (entry + snacks):600PKR

.....
Process exited after 7.326 seconds with return value 0
Press any key to continue . . .

```

```

12 {
13     cout<<"Error:Not more students allowed."<<endl;
14     return 0;
15 }
16 string studentNames[maxStudents];
17 int totalCostAllStudents=0;
18 {
19     for (int i=0;i< numberOfStudents;i++)
20     {
21         cout<<"Enter name for a student:"<<i+1<<":";
22         cin>>studentNames[i];
23         int totalCostPerStudent=entryfee+snackCost;
24         totalCostAllStudents+=totalCostPerStudent;
25         cout<<"Total cost for "<< studentNames[i]<<" : "<<totalCostPerStudent<<"PKR"<<endl;
26     }
27 }
28 cout<<"\n user names for the event "<<endl;
29 for (int i=0;i<numberOfStudents;i++)
30 {
31     cout<<"User "<<i+1<<" : "<<studentNames[i]<<endl;
32 }
33 cout<<"\nTotal cost of all students (entry + snacks):"<<totalCostAllStudents<<"PKR"<<endl;
34 return 0;
35 }

```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\OneDrive\Desktop\program 4\game night.exe
- Output Size: 1.83358573913574 MiB
- Compilation Time: 1.00s