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PF LAB TASKS

QUESTION NO 1:

```cpp
#include<iostream>
using namespace std;
int main()
{
int ticketprice=15;
int popcornprice=10,userno;
cout<<"how many users attend the event? ";
cin>>userno;
if(userno>10)
{
cout<<"error: no more than 10 users allowed." <<endl;
return 1;
}
string username[10];
int totalcost;
for(int i=0;i<userno;++i)
{
cout<<"enter user names:"<<i+1<<":";
cin>>username[i];
int usercost=ticketprice+popcornprice;
totalcost+=usercost;
cout<<username[i]<<"ticketprice: $"<<ticketprice<<"popcornprice: $"<<popcornprice<<"totalcost"<<usercost<<endl;
cout<<"users name for the event:"<<endl;
}
for(int i=0;i<userno;i++)
{cout<<"users "<<i+1<<":"<<username[i]<<endl;
}
cout<<"totalcost for all users: $"<<totalcost<<endl;
return 0;
}
```

```
users name for the event:
enter user names:2:saira
sairaticketprice: $15popcornprice: $10totalcost25
users name for the event:
enter user names:3:khola
kholaticketprice: $15popcornprice: $10totalcost25
users name for the event:
enter user names:4:eman
emanticketprice: $15popcornprice: $10totalcost25
users name for the event:
users 1:aqdus
users 2:saira
users 3:khola
users 4:eman
totalcost for all users: $100

--------------------------------
Process exited after 23.51 seconds with return value 0
Press any key to continue . . .
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\asher imtiaz\OneDrive\Desktop\scenario lab task.exe
- Output Size: 2.25686264038086 MiB
- Compilation Time: 1.42s

QUESTION NO 2.

```cpp
int main()
{
    int maxstudents=15;
    string names[maxstudents];
    int entryfee=60,snackcost=40,totalcost=0;
    int numstudents;
    cout<<"how many students will attend the gamenight? ";
    cin>>numstudents;
    if(numstudents>maxstudents)
    {
        cout<<"error: no more students allowed." <<endl;
        return 1;
    }
    for(int i=0;i<numstudents;i++)
    {
        cout<<"enter names for students:"<<i+1<<":"<<endl;
        cin>>names[i];
    }
    cout<<"users names for the gamenight :"<<endl;
    for(int i=0;i<numstudents;i++)
    {
        cout<<"users "<< i+1<<":"<<names[i]<<endl;
        int studentcost=entryfee+snackcost;
        cout<<"totalcost for :"<<names[i]<<":"<<studentcost<<"PKR"<<endl;
        totalcost+=studentcost;
    }
    cout<<"total cost for all students: "<<totalcost <<"PKR"<<endl;
    return 0;
}
```

Console output:

```
how many students will attend the gamenight? 3
enter names for students:1:
ahsan
enter names for students:2:
ali
enter names for students:3:
ahmed
users names for the gamenight :
users 1:ahsan
totalcost for :ahsan:100PKR
users 2:ali
totalcost for :ali:100PKR
users 3:ahmed
totalcost for :ahmed:100PKR
total cost for all students: 300PKR

--------------------------------
Process exited after 8.681 seconds with return value 0
Press any key to continue . . .
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\asher imtiaz\OneDrive\Desktop\scenario lab task.exe
- Output Size: 2.25686264038086 MiB
- Compilation Time: 1.39s