

LAB 10 EC2010:

Computer

Programming

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BY 1

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```

1 //K.J.M.U.G.S. Pranav Javasinghe
2 //2021E075
3 //EC2010
4 //BY1
5 //Lab10
6 //hotel reservation system
7 //I certainly that the code in the method function main of this project
8 #include <iostream>
9 using namespace std;
10 int n = 1 ;
11 class Reservation{
12 public :
13     int room ;
14     char food ;
15     int count=0;
16     void type ()
17     {
18         cout << "Booking number - " << n<< endl;
19         cout << "What type of room do you need ? (Single bedroom = 1 , Double bedroom = 2)"<<endl;
20         cin >> room ;
21         if (room == 1){
22             count +=1000;
23         }
24         else if (room == 2){
25             count +=2000;
26         }
27     }
28     cout << "Do you want to breakfast (Y/N)? " << endl;
29     cin >> food ;
30     if (food == 'Y'){
31         count+=200;
32     }
33     else{
34         count+=0;
35     }
36     cout << "The room is booked. pay " << count<<endl;
37     n++;
38 }
39 int main()
40 {
41     cout << "Welcome to the hotel reservation system !" << endl;
42     cout << endl;
43     cout<<"Available Rooms"<<endl;
44     cout << "Single bedrooms:" << endl;
45     cout << "Total- 50" << endl;
46     cout << "Available-30" << endl;
47     cout << "Price per room-1000\n" << endl;
48     cout << "Double bedrooms:"<< endl ;
49     cout << "Total- 50"<< endl;
50     cout << "Available-20"<< endl;
51     cout << "Price per room-2000" << endl;
52     cout << "Breakfast will be provided for 200."<< endl;
53     cout << endl;
54     int n = 1 ;
55     n++ ;
56     while(n>0){
57         Reservation booking;
58         booking.type() ;
59     }
60     return 0;
61 }
62
63
64

```

"C:\Users\2021e075\OneDrive - University of Jaffna\lab10\11\bin\Debug\11.exe"

Welcome to the hotel reservation system !

Available Rooms

Single bedrooms:

Total- 50

Available-30

Price per room-1000

Double bedrooms:

Total- 50

Available-20

Price per room-2000

Breakfast will be provided for 200.

Booking number - 1

What type of room do you need ? (Single bedroom = 1 , Double bedroom = 2)

1

Do you want to breakfast (Y/N)?

Y

The room is booked. pay 1200

Booking number - 2

What type of room do you need ? (Single bedroom = 1 , Double bedroom = 2)

"C:\Users\2021e075\OneDrive - University of Jaffna\lab10\11\bin\Debug\11.exe"

Welcome to the hotel reservation system !

Available Rooms

Single bedrooms:

Total- 50

Available-30

Price per room-1000

Double bedrooms:

Total- 50

Available-20

Price per room-2000

Breakfast will be provided for 200.

Booking number - 1

What type of room do you need ? (Single bedroom = 1 , Double bedroom = 2)

2

Do you want to breakfast (Y/N)?

N

The room is booked. pay 2000

Booking number - 2

What type of room do you need ? (Single bedroom = 1 , Double bedroom = 2)

```
"C:\Users\2021e075\OneDrive - University of Jaffna\lab10\11\bin\Debug\11.exe"
Welcome to the hotel reservation system !

Available Rooms
Single bedrooms:
Total- 50
Available-30
Price per room-1000

Double bedrooms:
Total- 50
Available-20
Price per room-2000
Breakfast will be provided for 200.

Booking number - 1
What type of room do you need ? (Single bedroom = 1 , Double bedroom = 2)
1
Do you want to breakfast (Y/N)?
N
The room is booked. pay 1000
Booking number - 2
What type of room do you need ? (Single bedroom = 1 , Double bedroom = 2)
2
Do you want to breakfast (Y/N)?
Y
The room is booked. pay 2200
Booking number - 3
What type of room do you need ? (Single bedroom = 1 , Double bedroom = 2)
```

Discussion:

Since C++ was created with objects in mind from the beginning, classes were utilized to make working with objects straightforward. The building blocks that C++ programmers employ to create simplified, easy-to-read code are classes and objects.

Conclusion:

Classes and loops are used in this program's code. Implementing a hotel reservation system is what it is.