

6. Define a class Hotel in C++ with the following specifications

Private members

- Rno Data member to store room number
- Name Data member to store customer name
- Tariff Data member to store per day charges
- NOD Data member to store number of days of stay
- CALC() Function to calculate and return amount as $NOD * Tariff$, and if the value of $days * Tariff > 10000$ then total amount is $1.05 * days * Tariff$.

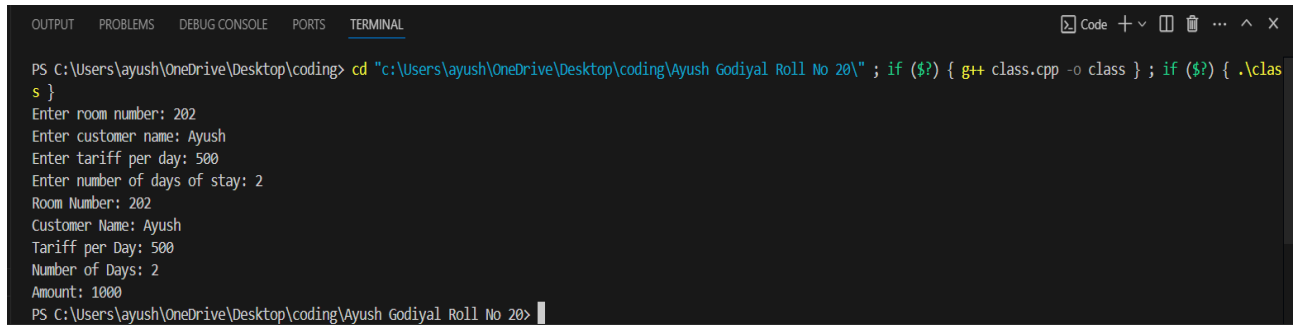
Public members

- Checkout() Function to display Rno, Name, Tariff, NOD and Amount (amount to be displayed by calling function) CALC()
- Checkin() Function to enter the content Rno, Name, Tariff and NOD.

SOURCE CODE:

```
#include <iostream>
#include <string>
using namespace std;
class Hotel {
private:
    int roomNumber;
    string customerName;
    double tariff;
    int numberOfDays;
    double CALC() const {
        double amount = tariff * numberOfDays;
        if (tariff > 10000) {
            amount *= 1.05;
        }
        return amount;
    }
public:
    void Checkin() {
        cout << "Enter room number: ";
        cin >> roomNumber;
        cin.ignore();
        cout << "Enter customer name: ";
        getline(cin, customerName);
        cout << "Enter tariff per day: ";
        cin >> tariff;
        cout << "Enter number of days of stay: ";
        cin >> numberOfDays;
    }
    void Checkout() const {
        cout << "Room Number: " << roomNumber << endl;
        cout << "Customer Name: " << customerName << endl;
        cout << "Tariff per Day: " << tariff << endl;
        cout << "Number of Days: " << numberOfDays << endl;
        cout << "Amount: " << CALC() << endl;
    }
};
int main() {
```

```
Hotel h;  
h.Checkin();  
h.Checkout();  
return 0;  
}
```



```
PS C:\Users\ayush\OneDrive\Desktop\coding> cd "c:\Users\ayush\OneDrive\Desktop\coding\Ayush Godiyal Roll No 20\" ; if ($?) { g++ class.cpp -o class } ; if ($?) { .\class }  
Enter room number: 202  
Enter customer name: Ayush  
Enter tariff per day: 500  
Enter number of days of stay: 2  
Room Number: 202  
Customer Name: Ayush  
Tariff per Day: 500  
Number of Days: 2  
Amount: 1000  
PS C:\Users\ayush\OneDrive\Desktop\coding\Ayush Godiyal Roll No 20>
```