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BSAI
PF Lab Task 8

```
#include <iostream>
using namespace std;

int main() {
    int mainChoice, userChoice, priceChoice, houseChoice, adminChoice;
    string pass;
```

```
    string city = "Islamabad";
    string priceRange = "Less than 30000";
    string house = "2 Marla House # 18 ST 5-25000 G-13";
    int rent = 25000;
```

```
do {
    cout << "\n=== Welcome to SM House Rental Company ===\n";
    cout << "1. User Panel\n";
    cout << "2. Admin Panel\n";
    cout << "3. Exit\n";
    cout << "Enter choice: ";
    cin >> mainChoice;
```

```
switch (mainChoice) {

    // ===== USER PANEL =====
    case 1:
        do {
            cout << "\n--- USER PANEL ---\n";
            cout << "1. " << city << endl;
            cout << "2. Back\n";
            cout << "Enter choice: ";
            cin >> userChoice;
```

```
if (userChoice == 1) {
    cout << "\nPrice Range:\n";
    cout << "1. " << priceRange << endl;
    cout << "2. Back\n";
    cout << "Enter choice: ";
    cin >> priceChoice;
```

```
if (priceChoice == 1) {
    cout << "\nAvailable Houses:\n";
    cout << "1. " << house << endl;
    cout << "2. Back\n";
    cout << "Enter choice: ";
    cin >> houseChoice;
```

```
    if (houseChoice == 1) {  
        int security = rent;  
        double tax = rent * 0.05;  
        double total = rent + security + tax;
```

```
        cout << "\n--- RENT AGREEMENT SUMMARY ---\n";  
        cout << "Monthly Rent: " << rent << endl;  
        cout << "1 Month Security: " << security << endl;  
        cout << "Government Tax (5%): " << tax << endl;  
        cout << "Total Payable Amount: " << total << endl;  
        cout << "Agreement: 1 Year Stamp Paper (As per Pakistan Law)\n";  
        cout << "Status: Booking Confirmed!\n";
```

```
        cout << "\nType any key and press Enter to go back...";  
        cin >> pass;  
    }  
}  
}  
} while (userChoice != 2);  
break;
```

```
// ===== ADMIN PANEL =====  
case 2:  
{
```

```
    int attempts = 0;  
    bool accessGranted = false;
```

```
    while (attempts < 3) {  
        cout << "\nEnter Admin Password: ";  
        cin >> pass;
```

```
        if (pass == "Shan123") {  
            accessGranted = true;  
            break;  
        } else {  
            attempts++;  
            cout << "Incorrect Password! You have " << (3 - attempts) << " attempts left.\n";  
        }  
    }  
}
```

```
    if (accessGranted) {  
        do {  
            cout << "\n--- ADMIN PANEL ---\n";  
            cout << "1. Add New City\n";  
            cout << "2. Add New Price Range\n";  
            cout << "3. Add New Area / House Listing\n";  
            cout << "4. Update Existing House Details\n";  
            cout << "5. Delete City / Price Range / Area / House\n";
```

```
cout << "6. View All Houses\n";
cout << "7. View All Cities & Price Ranges\n";
cout << "8. View Booking History\n";
cout << "9. Back\n";
cout << "Enter choice: ";
cin >> adminChoice;
```

```
if (adminChoice >= 1 && adminChoice <= 8) {
    cout << "\n(Project is under construction)\n";
    cout << "Type any key and press Enter to go back...";
    cin >> pass;
}
```

```
    } while (adminChoice != 9);
} else {
    cout << "\nAccess Denied! Returning to Main Menu.\n";
}
}
break;
case 3:
    cout << "Exiting program. Goodbye!\n";
    break;
```

```
default:
    cout << "Invalid Choice! Please try again.\n";
}
```

```
} while (mainChoice != 3);
```

```
return 0;
```

```
}
```

Untitled-13.cpp Untitled-16.cpp #include <iostream> Untitled-1 Untitled-26.cpp

Untitled-30.cpp > main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int mainChoice, userChoice, priceChoice, houseChoice, adminChoice;
6      string pass;
7
8      string city = "Islamabad";
9      string priceRange = "Less than 30000";
10     string house = "2 Marla House # 18 ST 5-25000 G-13";
11     int rent = 25000;
12
13     do {
14         cout << "\n=== Welcome to SM House Rental Company ===\n";
15         cout << "1. User Panel\n";
16         cout << "2. Admin Panel\n";
17         cout << "3. Exit\n";
18         cout << "Enter choice: ";
19         cin >> mainChoice;
20
21         switch (mainChoice) {
22
23             // ===== USER PANEL =====
24             case 1:
25                 do {
26                     cout << "\n--- USER PANEL ---\n";
27                     cout << "1. " << city << endl;
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
--- USER PANEL ---
1. Islamabad
2. Back
Enter choice: 1

Price Range:
1. Less than 30000
2. Back
Enter choice: 1

Available Houses:
1. 2 Marla House # 18 ST 5-25000 G-13
2. Back
Enter choice: 1

--- RENT AGREEMENT SUMMARY ---
Monthly Rent: 25000
1 Month Security: 25000
Government Tax (5%): 1250
Total Payable Amount: 51250
Agreement: 1 Year Stamp Paper (As per Pakistan Law)
Status: Booking Confirmed!
```