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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. Islamabad\n";
28                    cout << "2. Back\n";
29                    cout << "Enter choice: ";
30
31                    cout << "\nPrice Range:\n";
32                    cout << "1. Less than 30000\n";
33                    cout << "2. Back\n";
34                    cout << "Enter choice: ";
35
36                    cout << "\nAvailable Houses:\n";
37                    cout << "1. 2 Marla House # 18 ST 5-25000 G-13\n";
38                    cout << "2. Back\n";
39                    cout << "Enter choice: ";
40
41                    cout << "\n--- RENT AGREEMENT SUMMARY ---\n";
42                    cout << "Monthly Rent: 25000\n";
43                    cout << "1 Month Security: 25000\n";
44                    cout << "Government Tax (5%): 1250\n";
45                    cout << "Total Payable Amount: 51250\n";
46                    cout << "Agreement: 1 Year Stamp Paper (As per Pakistan Law)\n";
47                    cout << "Status: Booking Confirmed!\n";
48
49                } while (mainChoice == 1);
50            }
51        }
52    }
53}
```

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!
```