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Name : Ayush Pandey
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Roll No : 3317
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ASSIGNMENT-6

Problem Statement :

Implement any one of the following Expert System

- I. Information management
- II. Hospitals and medical facilities
- III. Help desks management
- IV. Employee performance evaluation
- V. Stock market trading
- VI. Airline scheduling and cargo schedules

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*/
```

```
#include <iostream>
```

```
#include <string>
```

```
using namespace std;
```

```
bool askQuestion(string question) {  
    string answer;  
    cout << question << " (y/n): "; cin >> answer;  
    return (answer == "y" || answer == "Y");  
}
```

```
int main() {  
    cout << "=== Employee Performance Evaluation Expert System ===" << endl;  
  
    char moreEmployees;  
    do {  
        bool punctuality = askQuestion("Is the employee punctual?");  
        bool taskCompletion = askQuestion("Does the employee complete tasks on time?");  
        bool teamwork = askQuestion("Does the employee work well in a team?");  
        bool leadership = askQuestion("Does the employee exhibit leadership qualities?");  
        bool innovation = askQuestion("Does the employee show innovation and creativity?");
```

```

        if (punctuality && taskCompletion && teamwork && leadership && innovation)

            cout << "\nEmployee Performance: EXCELLENT" << endl;

        else if (punctuality && taskCompletion && teamwork && (!leadership || !innovation))

            cout << "\nEmployee Performance: GOOD" << endl;

        else if (punctuality && !taskCompletion && teamwork && (!leadership || !innovation))

            cout << "\nEmployee Performance: AVERAGE" << endl;

        else if (!punctuality && !taskCompletion && !teamwork && !leadership && !innovation)

            cout << "\nEmployee Performance: POOR" << endl;

        else if ((!punctuality || !taskCompletion || !teamwork) && leadership && innovation)

            cout << "\nEmployee Performance: HAS POTENTIAL BUT NEEDS IMPROVEMENT" << endl;

        else

            cout << "\nEmployee Performance: NEEDS SIGNIFICANT IMPROVEMENT" << endl;

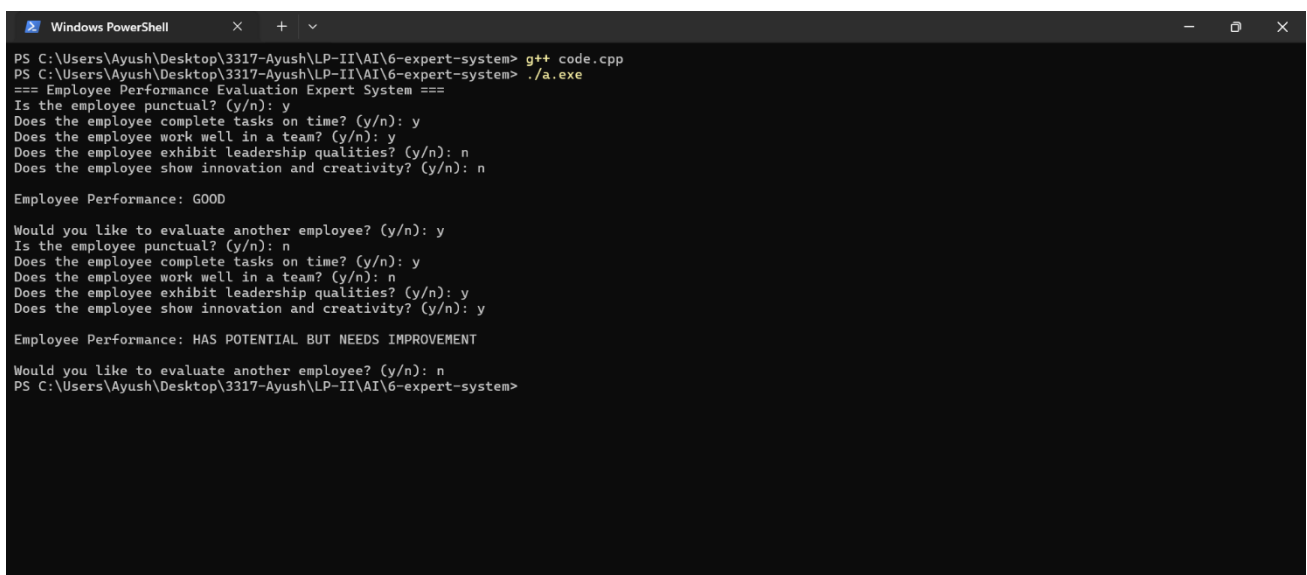
        cout << "\nWould you like to evaluate another employee? (y/n): ";

        cin >> moreEmployees;

    } while (moreEmployees == 'y' || moreEmployees == 'Y');

    return 0;
}

```



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Windows PowerShell
PS C:\Users\Ayush\Desktop\3317-Ayush\LP-II\AI\6-expert-system> g++ code.cpp
PS C:\Users\Ayush\Desktop\3317-Ayush\LP-II\AI\6-expert-system> ./a.exe
=== Employee Performance Evaluation Expert System ===
Is the employee punctual? (y/n): y
Does the employee complete tasks on time? (y/n): y
Does the employee work well in a team? (y/n): y
Does the employee exhibit leadership qualities? (y/n): n
Does the employee show innovation and creativity? (y/n): n

Employee Performance: GOOD

Would you like to evaluate another employee? (y/n): y
Is the employee punctual? (y/n): n
Does the employee complete tasks on time? (y/n): y
Does the employee work well in a team? (y/n): n
Does the employee exhibit leadership qualities? (y/n): y
Does the employee show innovation and creativity? (y/n): y

Employee Performance: HAS POTENTIAL BUT NEEDS IMPROVEMENT

Would you like to evaluate another employee? (y/n): n
PS C:\Users\Ayush\Desktop\3317-Ayush\LP-II\AI\6-expert-system>

```