

C++ Assessment

Lecture Management System using C++

```
#include <iostream>

#include <string>

using namespace std;

class Lecture {

private:

    string lecturerName;

    string subjectName;

    string courseName;

    int numberOfLectures;

public:

    Lecture(string lecturer, string subject, string course, int lectures) {

        lecturerName = lecturer;

        subjectName = subject;

        courseName = course;

        numberOfLectures = lectures;

    }

    void displayLectureDetails() {

        cout << "Lecturer Name    : " << lecturerName << endl;

        cout << "Subject Name      : " << subjectName << endl;

        cout << "Course Name       : " << courseName << endl;

        cout << "Number of Lectures : " << numberOfLectures << endl;

        cout << "-----" << endl;

    }

};
```

```
int main() {  
  
    Lecture* lectures[5]; // Array to store lecture objects  
  
    int count = 0;  
  
    int choice;  
  
  
    cout << "===== Welcome to Lecture Management System =====" << endl;  
  
  
    while (true) {  
  
        cout << "\nMenu:\n";  
  
        cout << "1. Add Lecture Details\n";  
        cout << "2. Display All Lectures\n";  
        cout << "3. Exit\n";  
  
        cout << "Choose an option: ";  
  
        cin >> choice;  
  
        cin.ignore();  
  
  
        switch (choice) {  
  
        case 1:  
  
            if (count < 5) {  
  
                string name, subject, course;  
  
                int numLectures;  
  
  
                cout << "Enter Lecturer Name: ";  
                getline(cin, name);  
  
  
                cout << "Enter Subject Name: ";  
                getline(cin, subject);  
  
  
                cout << "Enter Course Name: ";
```

```
getline(cin, course);
```

```
cout << "Enter Number of Lectures: ";
```

```
cin >> numLectures;
```

```
cin.ignore();
```

```
lectures[count] = new Lecture(name, subject, course, numLectures);
```

```
count++;
```

```
cout << "Lecture details added successfully!" << endl;
```

```
} else {
```

```
    cout << "Maximum of 5 lectures reached!" << endl;
```

```
}
```

```
break;
```

case 2:

```
if (count == 0) {
```

```
    cout << "No lectures added yet." << endl;
```

```
} else {
```

```
    cout << "\n===== Lecture Details =====" << endl;
```

```
    for (int i = 0; i < count; ++i) {
```

```
        cout << "Lecture " << i + 1 << ":" << endl;
```

```
        lectures[i]->displayLectureDetails();
```

```
    }
```

```
}
```

```
break;
```

case 3:

```
cout << "Exiting Lecture Management System. Goodbye!" << endl;
```

```
return 0;
```

```
default:
```

```
    cout << "Invalid choice! Please select from 1 to 3." << endl;
```

```
    }
```

```
}
```

```
}
```