Q#01: Title: Develop a program to help teacher in Student Grade Tracking
Scenario:

```cpp
#include <iostream>
using namespace std;
const int maxStudents = 50;
string studentNames[maxStudents];
int studentGrades[maxStudents];
int studentCount = 0;
void displayWelcomeMessage()
   {
   cout<<"Welcome to the Student Grade Tracker:"<<endl;
   cout<<"This tracker is designed by Muhammad Awais Khan:"<<endl;
   }
void addStudent() {
   if (studentCount>=maxStudents)
   {
      cout<<"Cannot add more students. The student list is full"<<endl;
   }
   string name;
   int grade;
   cout<<"Enter the student name: "<<endl;
   cin.ignore();
   getline(cin, name);
   cout<<"Enter the student grade: "<<endl;
   cin>>grade;
   studentNames[studentCount] = name;
   studentGrades[studentCount] = grade;
   studentCount++;
   cout<<"Student added successfully!"<<endl;
   }
void viewStudents() {
   if (studentCount == 0) {
      cout<<"No student records available." <<endl;
   }
   cout<<"Student Records: " <<endl;
   for (int i = 0; i < studentCount; i++)
   {
      cout<<"Name: "<<studentNames[i]<<",Grade:"<<studentGrades[i]<<endl;
   }
   }
int main()
   {
   int data;
      displayWelcomeMessage();
   do
   {
      cout<<"\nMenu:"<<endl;
      cout<<"1. Add a New Student Record"<<endl;
      cout<<"2. View All Student Records"<<endl;
      cout<<"3. Exit"<<endl;
```

```cpp
    cout<<"Enter your data: "<<endl;
    cin>>data;
    if (data == 1)
    {
       addStudent();
    } else if (data == 2)
    {
       viewStudents();
    } else if (data == 3)
    {
       cout<<"Exit the program. successfully"<<endl;
    } else
    {
       cout<<"Invalid data. Please try again."<<endl;
    }
    }
    while (data != 3);
    return 0;
}
```

Output:

Output

Welcome to the Student Grade Tracker:
This tracker is designed by Muhammad Awais Khan:

Menu:
1. Add a New Student Record
2. View All Student Records
3. Exit
Enter your data:

```
Welcome to the Student Grade Tracker:
This tracker is designed by Muhammad Awais Khan:

Menu:
1. Add a New Student Record
2. View All Student Records
3. Exit
Enter your data: |
2
No student records available.
Student Records:

Menu:
1. Add a New Student Record
2. View All Student Records
3. Exit
Enter your data:
```

```
Welcome to the Student Grade Tracker:
This tracker is designed by Muhammad Awais Khan:

Menu:
1. Add a New Student Record
2. View All Student Records
3. Exit
Enter your data:
3
Exit the program. successfully


=== Code Execution Successful ===
```

Output

```
Welcome to the Student Grade Tracker:
This tracker is designed by Muhammad Awais Khan:

Menu:
1. Add a New Student Record
2. View All Student Records
3. Exit
Enter your data:
1
Enter the student name:
Muhammad Awais Khan
Enter the student grade:
13
Student added successfully!

Menu:
1. Add a New Student Record
2. View All Student Records
3. Exit
Enter your data:
1
Enter the student name:
haris
Enter the student grade:
32
Student added successfully!

Menu:
1. Add a New Student Record
2. View All Student Records
3. Exit
Enter your data:
1
Enter the student name:
bilal
Enter the student grade:
32
Student added successfully!
```

```
Student Records:
Name: Muhammad Awais Khan,Grade:13
Name: haris,Grade:32
Name: bilal,Grade:32
Name: kareem,Grade:4
```