```
using namespace std;
         // Weather data structure
  16 struct WeatherData {
               string location;
string date;
string weatherCondition;
double temperature;
double humidity;
  19
 20
21
                double rainPossibility;
 22
       1):
 25
26
27
28
29
         // WeatherApp class
        class WeatherApp {
        private:
               string appName;
string collegeName;
vector<WeatherData> weatherData;
        public:
  33
                // Constructor
               WeatherApp(string name, string college) {
   appName = name;
   collegeName = college;
  34 -
  36
37
                }
                // Add weather data
                void addWeatherData(string location, string date, string condition, dou
 40 -
                       WeatherData data;
data.location = location;
                       data.date = date;
data.weatherCondition = condition;
 43
44
45
46
                       data.temperature = temperature;
data.humidity = humidity;
data.rainPossibility = rainPossibility;
                       weatherData.push_back(data);
 50
51
52
                }
                // Display weather report for today
void displayTodayWeather() {
                       if (!weatherData.empty()) {
   cout << "Today's Weather Report:" << endl;
   WeatherData data = weatherData.back();
   cout << "Location: " << data.location << endl;
   cout << "Date: " << data.date << endl;
   cout << "Weather Condition: " << data.weatherCondition << endl;
   cout << "Temperature: " << data.temperature << " degrees" << endl;
   cout << "Humidity: " << data.humidity << "%" << endl;
   cout << "Raip Possibility: " << data.raipPossibility << "%" << "%" <</pre>
  56
 59
60
61
62
                              cout << "Rain Possibility: " << data.rainPossibility << "%" <<
                          else
  64
                               cout << "No weather data available." << endl;</pre>
                }
 67
68
69
70
                // Other member functions and methods...
        };
  72 int main() {
                 // Create WeatherApp object
                WeatherApp app("WeatherApp", "My College");
 74
75
76
77
78
                // Add weather data
                app.addWeatherData("New York", "2023-07-07", "Cloudy", 25.5, 70.0, 40.0 app.addWeatherData("New York", "2023-07-06", "Sunny", 28.0, 65.0, 10.0 app.addWeatherData("New York", "2023-07-05", "Rainy", 22.0, 75.0, 80.0
  79
  80
                // Display today's weather report
                app.displayTodayWeather();
 83
84
                return 0;
         }
                                                                      input
Command line
                                                       ○ Text
Standard Input: O Interactive Console
                                                                        HUNTED
                                                         By Organised Crime Networks
                                                                                                                               BirdLife
       TIM PLOWDEN
```

#include <vector>

```
9
     #include <iostream>
 10
     #include <string>
 11
      #include <vector>
 12
 13
      using namespace std;
 14
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      // Weather data structure
 16 struct WeatherData {
           string location;
string date;
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double temperature;
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 17
 18
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      };
 24
 25
      // WeatherApp class
 26 - class WeatherApp {
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      private:
           string appName;
string collegeName;
vector<WeatherData> weatherData;
 28
 29
 30
 31
 32
      public:
           // Constructor
 33
 34
           WeatherApp(string name, string college) {
 35
                appName = name;
 36
                collegeName = college;
 37
           }
 38
 39
           // Add weather data
           void addWeatherData(string location, string date, string condition, doub)
 40 -
                WeatherData data;
data.location = location;
 42
                data.date = date;
 43
 44
                data.weatherCondition = condition;
                data.temperature = temperature;
data.humidity = humidity;
 45
 46
 47
                data.rainPossibility = rainPossibility;
 48
 49
                weatherData.push_back(data);
 50
           }
 51
 52
           // Display weather report for today
∨ / j
Today's Weather Report:
Location: New York
Date: 2023-07-05
Weather Condition: Rainy
```

Temperature: 22 degrees Humidity: 75% Rain Possibility: 80%

...Program finished with exit code 0 Press ENTER to exit console.