

Course  
&  
Test Series

Self-Made Assignment - C Language

Break, Goto and Continue commands in C Language

Assignment Task: Temperature Monitor System

Scenario:

You're writing a program for a basic temperature monitor in a greenhouse. The system takes temperature readings repeatedly. If any temperature goes above a critical limit (e.g., 45°C), the system should issue a warning and stop taking further readings using break.

Requirements:

1. Assume the system takes a maximum of 10 temperature readings.
2. Each reading is input by the user.
3. If a reading exceeds 45°C, the system should:
  - o Print a warning message.
  - o Stop taking further input using break.
4. If all readings are within range, print "All readings are safe."

Instructions for Students:

- Use a for loop for 10 readings.
- Use an if statement inside the loop to check if temperature > 45.
- Use the break statement to stop the loop if a critical value is entered.

Output 1:

```
Output
Greenhouse Temperature Monitoring System
Enter up to 10 temperature readings:
Enter temperature reading 1: 34
Enter temperature reading 2: 23
Enter temperature reading 3: 23
Enter temperature reading 4: 36
Enter temperature reading 5: 32
Enter temperature reading 6: 38
Enter temperature reading 7: 40
Enter temperature reading 8: 45
Enter temperature reading 9: 47
Warning: Critical temperature reached! Stopping monitoring.
```

...many more

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## Self-Made Assignment - C Language

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#### Output 2:

##### Output

```
Greenhouse Temperature Monitoring System
Enter up to 10 temperature readings:
Enter temperature reading 1: 23
Enter temperature reading 2: 43
Enter temperature reading 3: 48
Warning: Critical temperature reached! Stopping monitoring.
```

