Track

Professional Development and BI-infused CRM

Name

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Topic

Ternary Operator in C++

Ternary Operator definition

A ternary operator evaluates the test condition and executes an expression out of two based on the result of the condition.

Syntax

```
condition ? expression1 : expression2;
```

Here, condition is evaluated and

- if condition is true, expression1 is executed.

- if condition is false, expression2 is executed.

Example

```cpp
#include <iostream>
using namespace std;
int main()
{
    int degree;
    cout << "enter Temperature:";
    cin >>degree;
    cout<<"Temperature is ";
    degree < 40 ? cout<<"low" : cout<<"high";
}
```

Here in this code if the temperature entered below 40 then the temperature is low, else the temperature is high

Return value

The return value of ternary operator is the binary output from the condition, as it returns 1 if the condition is true and 0 if false.

Nested Ternary operators

It is also possible to use one ternary operator inside another ternary operator. It is called the nested ternary operator in C++.

Example

```cpp
#include <iostream>
using namespace std;
int main()
{
    int degree;
    cout << "enter Temperature :";
    cin >> degree;
    cout << "Temperature is ";
    degree > 40 ? cout << "high" : (degree > 0 ? cout<<"low" : cout<<"cold");
}
```