

Problem

Problem : Create a program to print the multiplication table for a given integer n. The program should use a for loop to print the product of n with integers from 1 to 10.

Explanation

First, we initialize the essential variables to store the data values, then we start with output questions for the user to input their desired number. After that, create a for loop from 1 to 10. Inside the loop, multiply the user's inputted number to the number of i. At the end, the program will output the multiplication of the user's inputted number from x1-x10.

Benefit

By using this program, users would be able to find and calculate the multiplication of the user's inputted number from x1-x10. This program would benefit them by calculating the multiplication of numbers more effectively, efficiently and accurately.

The Code Explained

```
#include <iostream>
using namespace std;

int main() {
    //variables
    int n,i,c;

    //input
    cout << "Enter a number: ";
    cin >> n;

    // operation
    for (i=1; i<=10; i++) {
        c = n*i;
        cout << n << " x " << i << " = " << c << endl;
    }

    return 0;
}
```