PROGRAM TELL NUMBER IS PRIME OR NOT

```cpp
#include <iostream>
#include <cmath>

using namespace std;

int main() {

    int num = 1;
    int Count = 0;

    cout << "Enter an integer: ";
    cin >> num;

    if (num == 1)
    {
        cout << "1 is not prime " << endl;
    }
    else
    {
        bool Prime = true;

        for (int i = 2; i <= sqrt(num); i++)
        {
            if (num % i == 0)
            {
                Prime = false;
                break;
            }
        }

        if (Prime)
        {
            cout << num << " is a prime number." << endl;
        }
        else
        {
            cout << num << " is not a prime number." << endl;
        }
    }
}
```

PROGRAM TELL NUMBER IS PRIME OR COMPOSITE NUMBER

```cpp
#include <iostream>
#include <cmath>

using namespace std;

int main() {
    int num = 1;
    int Count = 0;

    while (Count < 10) {
        cout << "Enter an integer: ";
        cin >> num;

        if (num == 1)
```

```
        {
            cout << "1 is neither prime nor composite." << endl;
        }
        else
        {
            bool Prime = true;

            for (int i = 2; i <= sqrt(num); i++)
            {
                if (num % i == 0)
                {
                    Prime = false;
                    break;
                }
            }

            if (Prime)
            {
                cout << num << " is a prime number." << endl;
            }
            else
            {
                cout << num << " is a composite number." << endl;
            }

        }

        Count++;
    }


}
```