PRIME NUMBER

CODE:

#include <iostream>

using namespace std;

int main() {

int i, n;

bool is\_prime = true;

cout << "Enter a positive integer: ";

cin >> n;

// 0 and 1 are not prime numbers

if (n == 0 || n == 1) {

is\_prime = false;

}

// loop to check if n is prime

for (i = 2; i <= n/2; ++i) {

if (n % i == 0) {

is\_prime = false;

break;

}

}

if (is\_prime)

cout << n << " is a prime number";

else

cout << n << " is not a prime number";

return 0;

}

OUTPUT:

Enter a positive integer: 7

7 is a prime number

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Process exited after 1.451 seconds with return value 0

Press any key to continue . . .