**2. Find prime number using function**

**Program:**

#include <iostream>

#include <cmath>

bool is\_prime(int n) {

// Handle edge cases

if (n <= 1) {

return false;

}

if (n <= 3) {

return true;

}

if (n % 2 == 0 || n % 3 == 0) {

return false;

}

for (int i = 5; i \* i <= n; i += 6) {

if (n % i == 0 || n % (i + 2) == 0) {

return false;

}

}

return true;

}

int main() {

int num = 29; // Change this number to test other numbers

if (is\_prime(num)) {

std::cout << num << " is a prime number." << std::endl;

} else {

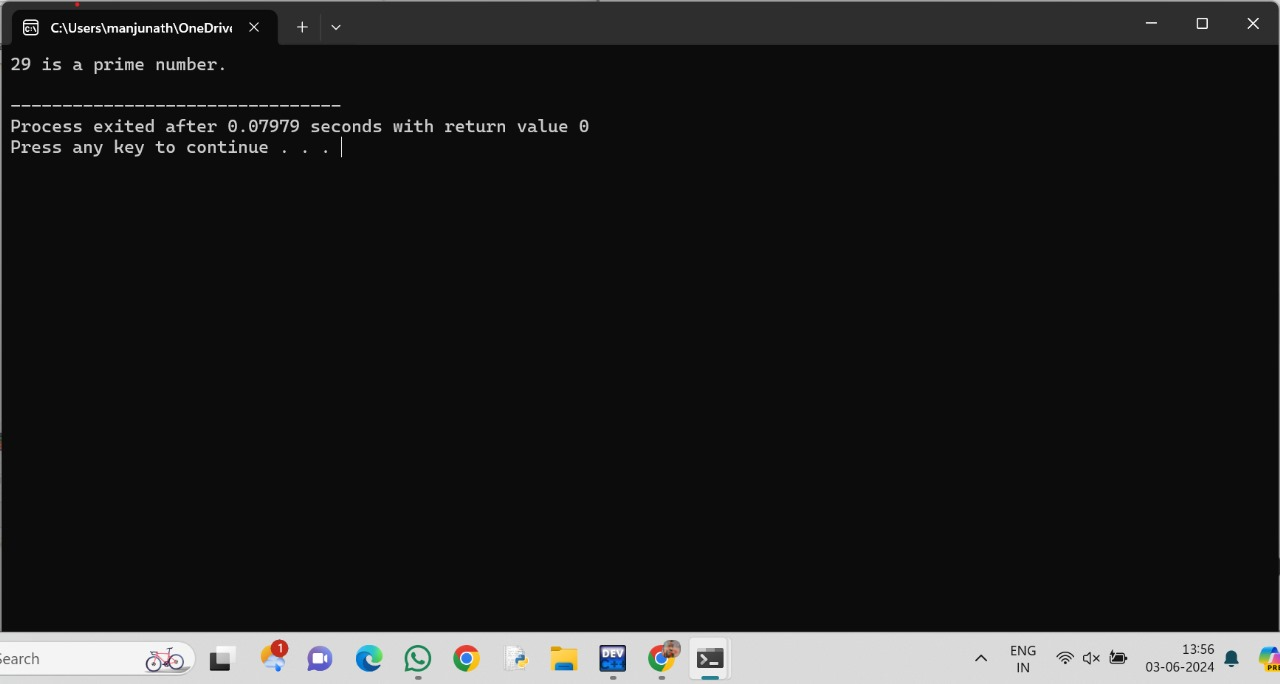
std::cout << num << " is not a prime number." << std::endl;

}

return 0;

}

**OUTPUT:**

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