

## 1. WAP for prime numbers

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

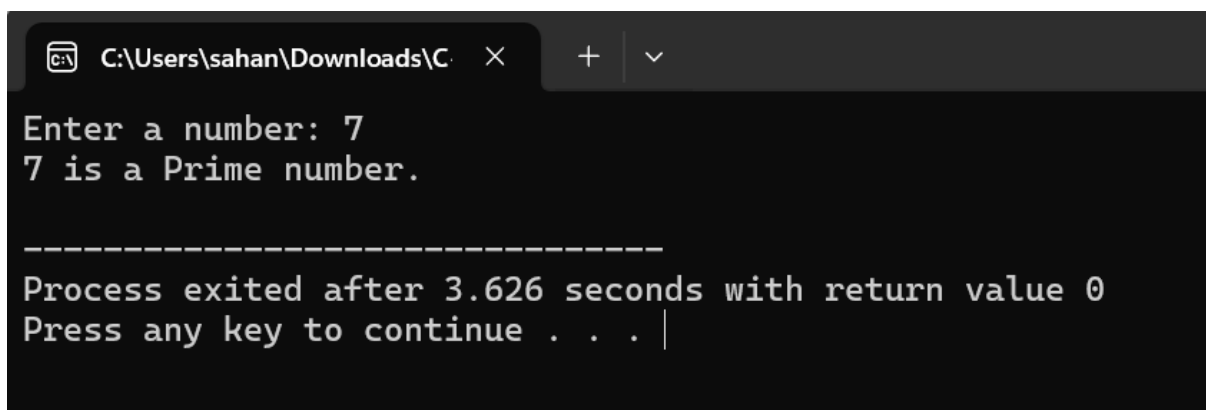
int main() {
    int num, i, isPrime = 1;

    cout << "Enter a number: ";
    cin >> num;

    if (num <= 1) {
        isPrime = 0;
    } else {
        for (i = 2; i <= num / 2; ++i) {
            if (num % i == 0) {
                isPrime = 0;
                break;
            }
        }
    }

    if (isPrime)
        cout << num << " is a Prime number." << endl;
    else
        cout << num << " is NOT a Prime number." << endl;

    return 0;
}
```



```
C:\Users\sahan\Downloads\C  x  +  v
Enter a number: 7
7 is a Prime number.

-----
Process exited after 3.626 seconds with return value 0
Press any key to continue . . . |
```

## 2. WAP for palindrome use functions

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

class PalindromeChecker {
public:
    int number;

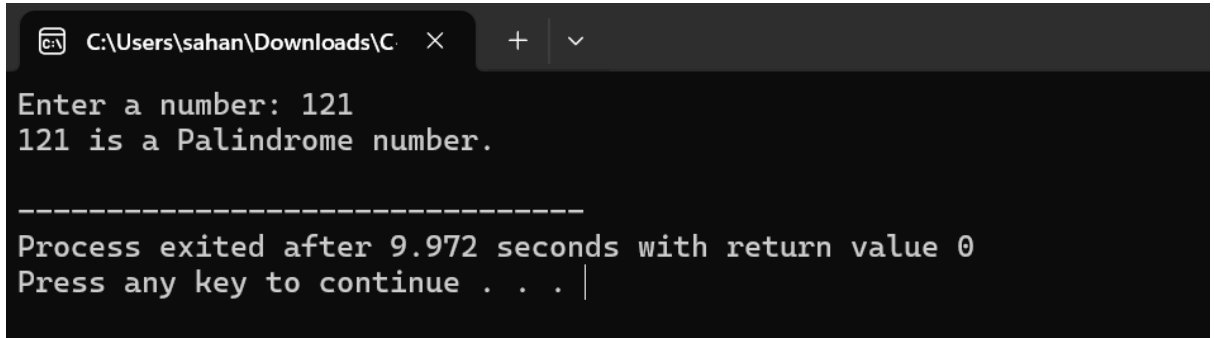
    void input()
    {
        cout << "Enter a number: ";
        cin >> number;
    }

    int reverse()
    {
        int temp = number;
        int rev = 0;
        while (temp != 0)
        {
            int digit = temp % 10;
            rev = rev * 10 + digit;
            temp /= 10;
        }
        return rev;
    }

    void check()
    {
        int reversed = reverse();
        if (number == reversed)
        {
            cout << number << " is a Palindrome number." << endl;
        } else {
            cout << number << " is NOT a Palindrome number." << endl;
        }
    }
};
```

```
int main()
{
    PalindromeChecker p;
    p.input();
    p.check();

    return 0;
}
```



```
C:\Users\sahan\Downloads\C > Enter a number: 121
121 is a Palindrome number.

-----
Process exited after 9.972 seconds with return value 0
Press any key to continue . . . |
```