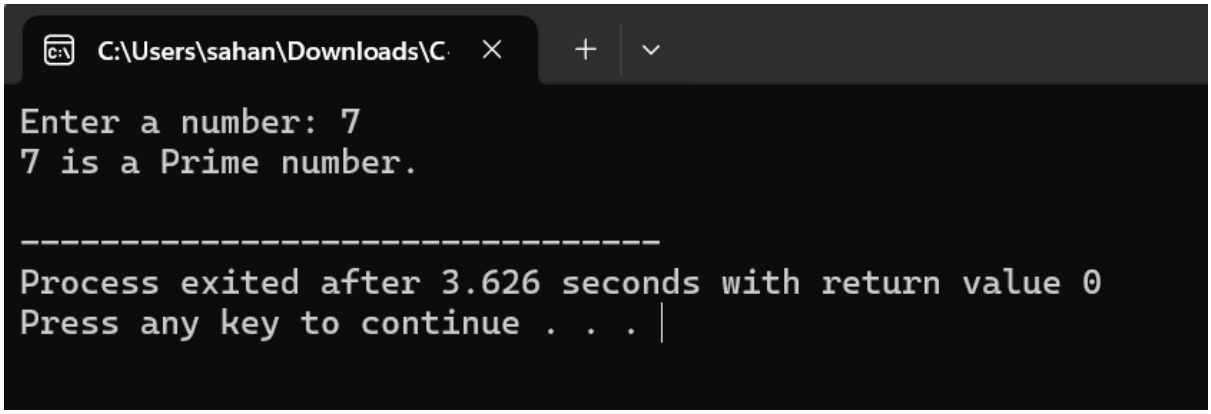
1. WAP for prime numbers

```
#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;
}
```



## 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;
}
```