

## Program 2:

```
main.cpp
1  #include <iostream>
2  using namespace std;
3
4  int main()
5  {
6      int num, x = 0;
7
8      cout << " enter a number: ";
9      cin >> num;
10
11     for (int n = num - 1; n >= 1; n--)
12     {
13         for (int m = 2; m < n; m++)
14         {
15             if (n % m == 0)
16                 x++;
17         }
18         if (x == 0)
19         {
20             if (n == 1)
21             {
22                 cout << "There is no prime number less than 2 ";
23                 break;
24             }
25             cout << n << " is the last prime number before " << num << endl;
26             break;
27         }
28         x = 0;
29     }
30     return 0;

```

input

```
enter a number: 40
37 is the last prime number before 40
Program finished with exit code 0

```

## Program 3: