// This program finds the prime numbers in the range of the integer numbers [k1, k2].

// Get the input from the user.

Console.WriteLine("Enter the starting number:");

int k1 = int.Parse(Console.ReadLine());

Console.WriteLine("Enter the ending number:");

int k2 = int.Parse(Console.ReadLine());

// Create a list to store the prime numbers.

List<int> primeNumbers = new List<int>();

// Iterate through the numbers in the range [k1, k2].

for (int i = k1; i <= k2; i++)

{

// Check if the number is prime.

bool isPrime = true;

for (int j = 2; j <= Math.Sqrt(i); j++)

{

if (i % j == 0)

{

isPrime = false;

break;

}

}

// If the number is prime, add it to the list.

if (isPrime)

{

primeNumbers.Add(i);

}

}

// Print the prime numbers.

Console.WriteLine("The prime numbers in the range [{0}, {1}] are:", k1, k2);

foreach (int primeNumber in primeNumbers)

{

Console.WriteLine(primeNumber);

}