using System;

using System.ComponentModel.Design;

namespace MyApp

{

internal class Program

{

//Question 01

//static void AddTwoNumbers() //Question 01

//{

// Console.Write("Enter first digit : ");

// int a = Convert.ToInt32(Console.ReadLine());

// Console.Write("Enter second digit : ");

// int b = Convert.ToInt32(Console.ReadLine());

// Console.WriteLine($"Sum = {a + b}");

//}

////Question 02

//static void EvenNumbers() //Question 02

//{

// int e = 1;

// while (e <= 100)

// {

// if ((e % 2) == 0)

// Console.WriteLine(e);

// e++;

// }

//}

//Question 03

//static void LeapYear() //Question 03

//{

// Console.Write("Enter year : ");

// int year = Convert.ToInt32(Console.ReadLine());

// if((year % 4)==4 && ((year%100)==0) && ((year % 400) == 0)){

// Console.WriteLine("Its a LeapYear");

// }

// else if((year % 4) == 0)

// {

// Console.WriteLine("Its a LeapYear");

// }

// else

// {

// Console.WriteLine("Its not a LeapYear");

// }

//}

//Question 04

//static void kmhTomph() //Question 04

//{

// Console.Write("Enter kmh value : ");

// double kmh = Convert.ToDouble(Console.ReadLine());

// double mph = kmh \* 0.621371;

// Console.WriteLine($"kmh to mph value = {mph}");

//}

//Question 05

//static void buzzNumber() //Question 05

//{

// Console.Write("Enter number: ");

// int buzz = Convert.ToInt32(Console.ReadLine());

// if (((buzz%7)==0) || ((buzz % 10) == 7)){

// Console.WriteLine("Given number is buzz number");

// }

// else

// {

// Console.WriteLine("Given number is not buzz number");

// }

//}

//Question 06

//static void MultiplicationTable() //Question 06

//{

// Console.Write("Enter table number: ");

// int t = Convert.ToInt32(Console.ReadLine());

// int z = 1;

// while (z <= 10)

// {

// Console.WriteLine($"{t} x {z} = {t\*z}");

// z++;

// }

//}

//Question 07

//static void FactorialOfNumber() //Question 07

//{

// Console.Write("Enter factorial number: ");

// int f = Convert.ToInt32(Console.ReadLine());

// if (f < 0)

// {

// Console.WriteLine("Factorial of number does not exist");

// }

// else

// {

// int y = 1;

// int fact = 1;

// while (y <= f)

// {

// fact \*= y;

// y++;

// }

// Console.WriteLine($"Factorial of Number = { fact}");

// }

//}

//Question 08

static void primeNumber()

{

Console.Write("Enter prime number: ");

int p = Convert.ToInt32(Console.ReadLine());

bool isPrime = true;

int x = 2;

if (p <= 1)

{

isPrime = false;

}

else

{

while ((x \* x) <= p)

{

if ((p % x) == 0){

isPrime = false;

break;

}

x++;

}

}

if (isPrime)

{

Console.WriteLine("Given Number is Prime Number");

}

else

{

Console.WriteLine("Given number is not prime number");

}

}

//Question 09

//static void trainagleProgram() //Question 09

//{

// Console.Write("Enter first side value: ");

// int s = Convert.ToInt32(Console.ReadLine());

// Console.Write("Enter second side value: ");

// int u = Convert.ToInt32(Console.ReadLine());

// Console.Write("Enter third side value: ");

// int v = Convert.ToInt32(Console.ReadLine());

// if (s==u && s == v)

// {

// Console.WriteLine("Given sides are of equilateral triangle");

// }

// else if(s!=u && u!=v && s != v)

// {

// Console.WriteLine("Given sides are of scelene triangle");

// }

// else

// {

// Console.WriteLine("Given sides are of isosceles triangle");

// }

//}

//Question 10(part 01)

//static void pattern\_01() //Question 10(part 01)

//{

// Console.WriteLine("\*\n");

// Console.WriteLine("\*\*\n");

// Console.WriteLine("\*\*\*\n");

// Console.WriteLine("\*\*\*\*\n");

// Console.WriteLine("\*\*\*\*\*\n");

//}

//Question 10(part 02)

static void pattern\_02()

{

int k = 5;

//int i = 1;

for (int n = 1; n <= k; n++)

{

for (int j = 1; j <= n; j++)

{

Console.Write("\* ");

}

Console.Write("\n");

}

}

//Question 10(part 02)

//static void pattern\_02() //Question 10(part 02)

//{

// int k = 5;

// int n = 1;

// while (n <=k)

// {

// int j = 1;

// while (j <= n)

// {

// Console.Write("\*");

// j++;

// }

// Console.WriteLine("\n");

// n++;

// }

//}

//Question 11(Bonus Question)

static void PalindromeNumber()

{

Console.WriteLine("Enter value of number");

int l = Convert.ToInt32(Console.ReadLine());

int orig = l;

int reverse = 0;

while (l > 0)

{

int remainder = l % 10;

reverse = (reverse \* 10) + remainder;

l = l / 10;

}

if (reverse == orig)

{

Console.WriteLine("Given number is Palindrome number");

}

else

{

Console.WriteLine("Given number is not Palindrome number");

}

}

static void Main(string[] args)

{

primeNumber();

//Console.WriteLine("Hello World!");

}

}

}