In this assignment you will create the Prime Number application. A prime number is an integer greater than 1 that is evenly divisible by only 1 and itself. For example, 2, 3, and 7 are prime numbers, but 4, 6 and 9 are not. Mod can be used to determine if one number evenly divides into another, and a loop can be used to generate divisors between 1 and the number entered.

The **pseudocode** for determining a prime number is:

Get TestNum from user

Divisor = 1

If TestNum <= 1 Then

Display message that TestNum is not prime

Else

Do

Increment Divisor by 1

Loop While TestNum Mod Divisor <> 0

If Divisor = TestNum Then

Display message that TestNum is prime

Else

Display message that TestNum is not prime

End If

End If

**Create the Code**

Refer to the form below to add, position and size the objects.

**In a Windows Form put two labels, a TextBox and a button**.

Test

Enter an Integer

**Use the table below to setup the properties**.

|  |  |  |
| --- | --- | --- |
| **Object** | **Name** | **Text** |
| Form |  | Prime Number |
| Label1 | lblIntegerPrompt | Enter an Integer |
| Textbox1 | txtInteger | *Empty* |
| Label2 | lblPrimeResult | *Empty* |
| Button1 | btnTest | Test |

**Now Write the Application**. When you’re done call me over to get ticked-off.

**Hint:**

Dim intTestNum As Integer = Val(Me.txtInteger.Text)

Dim intDivisor As Integer = 1