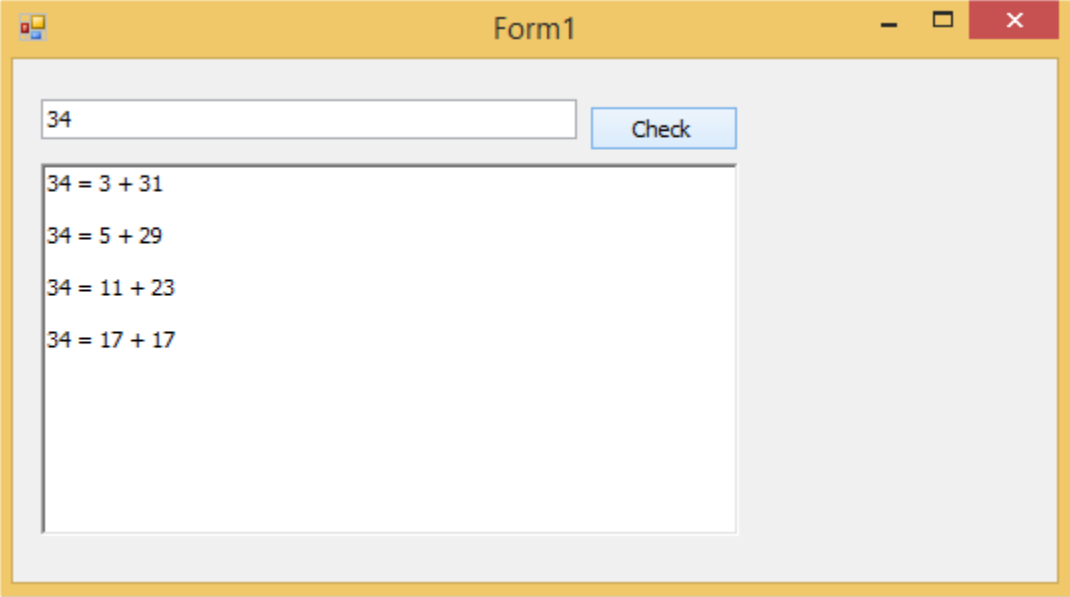
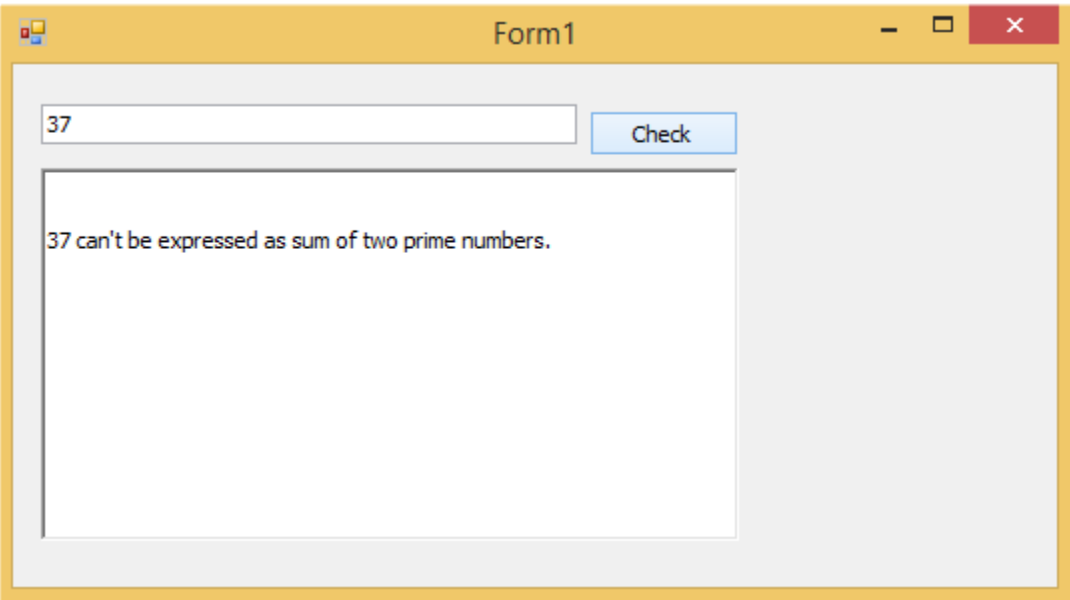
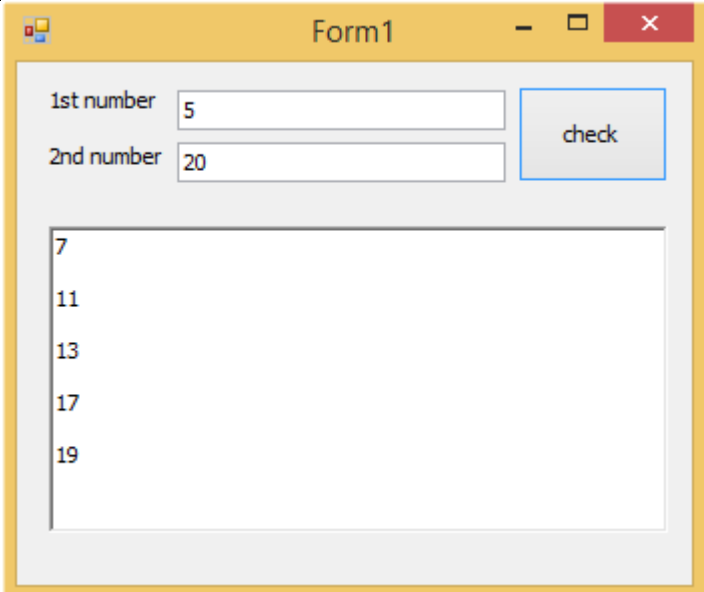


# Programming I – Tutorial 06 Functions

Q1	Write a GUI program that Check & display Whether a Number can be Express as Sum of Two Prime Numbers
GUI	 



Sol	prim	<pre>public ref class Form1 : public System::Windows::Forms::Form { public:      int prime(int n)      /* Function to check prime number */     {         int i, flag=1;         for(i=2; i&lt;=n/2; ++i)             if(n%i==0)                 flag=0;         return flag;     }     Form1(void)     {         InitializeComponent();     } };</pre>
	butto n	<pre>private: System::Void button1_Click(System::Object^ sender, System::EventArgs^ e) {     int num,i,flag=0;     num=int::Parse(textBox1-&gt;Text);     richTextBox1-&gt;Text="";     for(i=2; i&lt;=num/2; ++i)     {         if (prime(i)!=0)         {             if ( prime(num-i)!=0)             {                 richTextBox1-&gt;Text=richTextBox1-&gt;Text+(num.ToString()+" = "+i.ToString()+" + "+                     (num-i).ToString()+"\n\r");                 flag=1;             }         }     }     if (flag==0)     {         richTextBox1-&gt;Text=richTextBox1-&gt;Text+(num.ToString()+             " can't be expressed as sum of two prime numbers.\n\r");     } }</pre>

Q2	Build a GUI Program to Display Prime Numbers Between Intervals Using User-defined Function	
GUI		
Sol	Prime check	<pre> public ref class Form1 : public System::Windows::Forms::Form { public:     int check_prime(int num) /* User-defined function to check prime number     {         int j, flag=0;         for(j=2; j&lt;=num/2; ++j){             if(num%j==0){                 flag=1;                 break;             }         }         return flag;     }     Form1(void)     {         InitializeComponent();     } } </pre>



button	n	<pre>private: System::Void button1_Click(System::Object^ sender, System::EventArgs^     int n1,n2,i,flag=0;     richTextBox1-&gt;Text="";     n1=int::Parse(textBox1-&gt;Text);     n2=int::Parse(textBox2-&gt;Text);      for(i=n1+1;i&lt;n2;++i)     {         flag=check_prime(i);         if(flag==0)             richTextBox1-&gt;Text=richTextBox1-&gt;Text+i.ToString()+"\n\r";     } }</pre>
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