

程式碼:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows;
using System.Windows.Controls;
using System.Windows.Data;
using System.Windows.Documents;
using System.Windows.Input;
using System.Windows.Media;
using System.Windows.Media.Imaging;
using System.Windows.Navigation;
using System.Windows.Shapes;

namespace _13
{
    /// <summary>
    /// Interaction logic for MainWindow.xaml
    /// </summary>
    public partial class MainWindow : Window
    {
        public MainWindow()
        {
            InitializeComponent();
        }
        private void Button_Click(object sender, RoutedEventArgs
e)
        {
            int n;
            int x, y, z, flag = 1;
            int res = 0;
            List<int> prime_number = new List<int>();
            string number = textbox1.Text;
            bool transform = int.TryParse(textbox1.Text, out n);
            if (textbox1.Text.Length == 0 || !transform)
```

```

{
    MessageBox.Show("重新輸入!");
}
else
{
    for (x = 2; x < n; x++)
    {
        for (y = 2; y < x; y++)
        {
            if (x % y == 0)
            {
                flag = 0;
                break;
            }
        }
        if (flag != 0 && y == x)
        {
            prime_number.Add(x);
        }
        flag = 1;
    }
    textbox2.AppendText(n + "的質數為: ");
    for (x = 0; x < prime_number.Count; x++)
    {
        if (x == prime_number.Count - 1)
        {
            textbox2.AppendText(prime_number[x].ToString());
        }
        else
        {
            textbox2.AppendText(prime_number[x].ToString() + ", ");
        }
    }
    for (x = 0; x < prime_number.Count; x++)
    {
        z = 1;
    }
}

```

```
        + "的倍數: ");  
  
        do  
        {  
            res = prime_number[x] * z;  
            z++;  
            textbox3.AppendText(res.ToString() + " ");  
        } while (prime_number[x] * z <= n);  
        textbox3.AppendText("\r\n");  
    }  
}  
}
```

執行結果:

