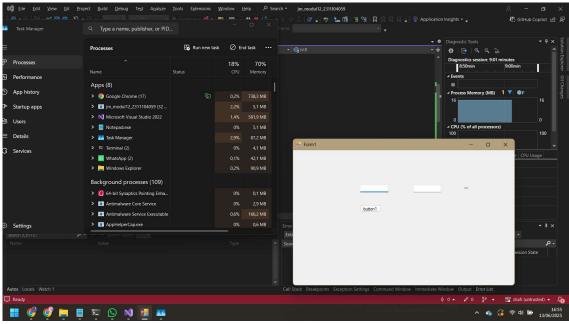
JURNAL MODUL 12

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Hasil Run:



Code Lengkap Form1.cs:

```
using System;
using System.Windows.Forms;
namespace modul12 2311104059
   public partial class Form1 : Form
        public Form1()
            InitializeComponent();
        private void btnHitung_Click(object sender, EventArgs e)
            int a = int.Parse(txtA.Text);
            int b = int.Parse(txtB.Text);
            int hasil = CariNilaiPangkat(a, b);
            lblHasil.Text = $"Hasil: {hasil}";
        public int CariNilaiPangkat(int a, int b)
            if (b == 0) return 1;
            if (b < 0) return -1;
            if (b > 10 \mid \mid a > 100) return -2;
            try
                checked
                    int hasil = 1;
                    for (int i = 0; i < b; i++)
                        hasil *= a;
```

```
return hasil;
}
catch (OverflowException)
{
    return -3;
}
}
}
```

MENAMBAHKAN UNIT TESTING:

```
using Microsoft. Visual Studio. Test Tools. Unit Testing;
using modul12 2311104059;
namespace modul12 2311104059Tests
    [TestClass]
   public class UnitTest1
        Form1 form = new Form1();
        [TestMethod]
        public void TestB0_Return1()
            Assert.AreEqual(1, form.CariNilaiPangkat(100, 0));
        [TestMethod]
        public void TestBNegative_ReturnMinus1()
            Assert.AreEqual(-1, form.CariNilaiPangkat(5, -2));
        [TestMethod]
        public void TestALebihDari100 ReturnMinus2()
            Assert.AreEqual(-2, form.CariNilaiPangkat(101, 2));
        [TestMethod]
        public void TestBLebihDari10 ReturnMinus2()
            Assert.AreEqual(-2, form.CariNilaiPangkat(2, 11));
        [TestMethod]
        public void TestValidPangkat ReturnValue()
            Assert.AreEqual(8, form.CariNilaiPangkat(2, 3));
        [TestMethod]
        public void TestOverflow_ReturnMinus3()
            Assert.AreEqual(-3, form.CariNilaiPangkat(100000, 5));
   }
```