

2100032064

Lab1

Task1:

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Linq;
using System.Runtime.Remoting.Messaging;
using System.Text;
using System.Threading.Tasks;

namespace objectinc_
{
    class Calc
    {
        int sum = 0;
        public int Add(int x, int y)
        {
            sum = x + y;
            return sum;
        }
        public int Sub(int x, int y)
        {
            int diff = Math.Abs(x - y);
            return diff;
        }
        public int Mul(int x, int y)
        {
            return x * y;
        }
        public double Sqr(double s)
        {
            return Math.Sqrt(s);
        }
    }

    class Program
    {
        static void Main(string[] args)
        {
            Calc c = new Calc();
            int a = Convert.ToInt32(Console.ReadLine());
            int b = Convert.ToInt32(Console.ReadLine());
            double n = Double.Parse(Console.ReadLine());
            Console.WriteLine(c.Add(a, b));
            Console.WriteLine(c.Sub(a, b));
            Console.WriteLine(c.Mul(a, b));
            Console.WriteLine(c.Sqr(n));
        }
    }
}
```

```
5
10
25
15
5
50
5
Press any key to continue . . . |
```

Task2:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Runtime.ConstrainedExecution;
using System.Text;
using System.Threading.Tasks;

class Task
{
    public double Pos(int n)
    {
        double res1 = Math.Pow(n, 2);
        return res1;
    }
    public int Neg(int n)
    {
        int res2 = Math.Abs(n);
        return res2;
    }
}

namespace lab1task2
{
    class Program
    {
        static void Main(string[] args)
        {
            Task t = new Task();
            int n = Convert.ToInt32(Console.ReadLine());
            if (n >= 0)
            {
                Console.WriteLine(t.Pos(n));
            }
            else if (n < 0)
            {
                Console.WriteLine(t.Neg(n));
            }
            else if (n == 0)
            {
                Console.WriteLine(0);
            }
        }
    }
}
```

```
-5
5
Press any key to continue . . . |
```

```
0
0
Press any key to continue . . . |
```

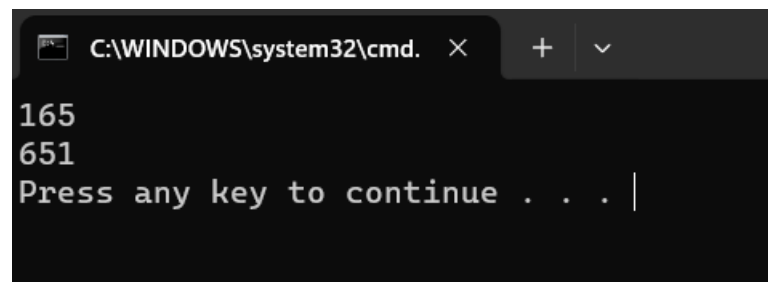
```
5
25
Press any key to continue . . . |
```

### Task3

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace task3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            int n = Convert.ToInt32(Console.ReadLine());
            int[] a = new int[3];
            int i = 0;
            while (n > 0)
            {
                int r = n % 10;
                a[i++] = r;
                n = n / 10;
            }
            Array.Sort(a);
            Array.Reverse(a);
            string result = string.Join("", a);

            // Output the string
            Console.WriteLine(result);
        }
    }
}
```



A screenshot of a Windows command prompt window. The title bar at the top shows the file explorer icon, the path `C:\WINDOWS\system32\cmd.`, a close button (X), and a tab control with a plus sign (+) and a dropdown arrow (v). The command prompt area has a black background with white text. It displays the number `165` on the first line, `651` on the second line, and the prompt `Press any key to continue . . . |` on the third line, where the vertical bar indicates the cursor position.

```
C:\WINDOWS\system32\cmd. X + v
165
651
Press any key to continue . . . |
```