

Analysis report

Find our work by following this link:

<https://drive.google.com/file/d/10vJ3sz9WfYJM/Dk42gUg-Mi8Di1GCJDHo/view?usp=sharing>

Form1.cs

What we used:

- DateTime
- DayOfWeek
- GetHashCode()
- ListBox.Items
- StreamWriter

Zoom on a line:

```
string myName = "Max";
DateTime dob = new DateTime(2004, 8, 18);
string birthDay = dob.DayOfWeek.ToString();
```

We create an object and extract the day of the week which we will convert to a "string" to display it.

FormCalculator.cs

What we used:

- ComboBox
- int.TryParse
- switch

Zoom on a line:

```
switch (op)
{
    case "+":
        result = num1 + num2;
        break;
    ...
    case "/":
        if (num2 == 0)
        {
            MessageBox.Show("Cannot divide by zero.");
            return;
        }
        result = (double)num1 / num2;
        break;
}
```

We handle the case of division by 0 by doing a "cast" (double) to avoid integer division.

FormButtonJump.cs

What we used:

- Random
- ClientSize
- Location

Zoom on a line:

```
Random rnd = new Random();
int maxX = this.ClientSize.Width - btnJump.Width;
int maxY = this.ClientSize.Height - btnJump.Height;
```

We calculate the authorized area to prevent the button from exceeding the window.

```
int newX = rnd.Next(0, maxX);
int newY = rnd.Next(0, maxY);
btnJump.Location = new Point(newX, newY);
```

We create a new random position that we apply to the button.