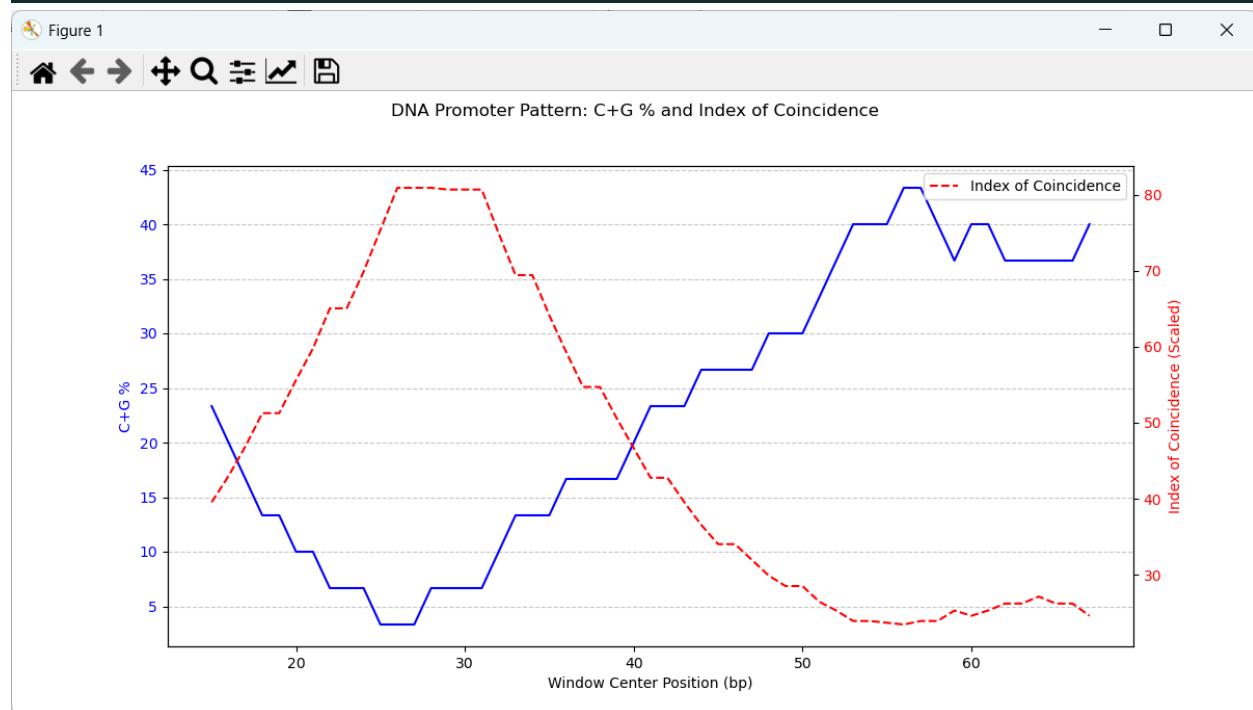
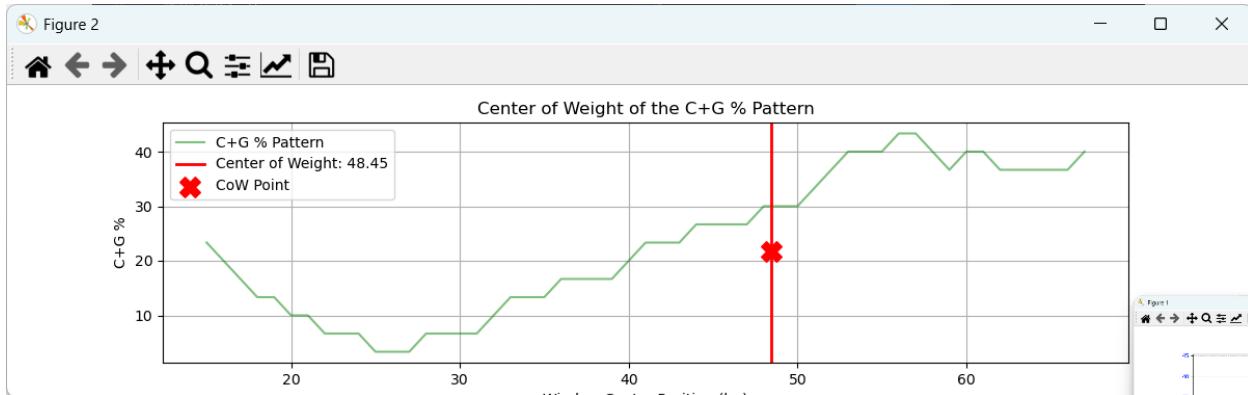


# LABORATORY REPORT #10

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Bioinformatics, 4<sup>th</sup> year 1<sup>st</sup> semester, 2025-2026

lab10\_1.py





```
--- Analysis Summary ---
DNA Sequence Length: 82 bp
Sliding Window Length: 30 bp
Number of Windows Analyzed: 53
```

```
--- Required Test Values (Overall Average of Window Results) ---
Calculated C+G % Average: 23.08
Required C+G % Target: 29.27
Calculated Kappa Index of Coincidence Average (Standard IC x 100): 45.78
Required IC Target: 27.53
```

```
--- Center of Weight Calculation ---
Center of Weight of the C+G % Pattern: 48.45 bp
```

## lab10\_2.py

The screenshot shows the Spyder Python 3.13.5 IDE interface. On the left, the code editor displays `lab10_1.py` and `lab10_2.py`. The right side features the IPython console with the following history:

```
Python 3.13.5 | packaged by Anaconda, Inc. | (main, Jun 12 2025, 16:37:03) [MSC v.1929 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 8.30.0 -- An enhanced Interactive Python. Type '?' for help.

In [1]: %runfile C:/Users/Antonio/Desktop/bioinfo/lab10/lab10_2.py --wdir
In [2]: %runfile C:/Users/Antonio/Desktop/bioinfo/lab10/lab10_2.py --wdir
In [3]:
```

