



THE COCHIN COLLEGE

Koovapadam, Kochi-2

Affiliated To Mahatma Gandhi University

Re-accredited by NAAC With B+ Grade



Fourth Cycle
NAAC Accreditation 2024

Criterion 4 Infrastructure and Learning Resources

4.1 - Physical Facilities

Metric No. 4.1.1

The Institution has adequate infrastructure and other facilities for, *teaching – learning, viz., classrooms, laboratories, computing equipment etc ICT – enabled facilities such as smart class, LMS etc. Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc*

Software to support Research

Submitted to



National Assessment and Accreditation Council



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Facilities for Research and Development: Software to Support Research

Research support software provides a comprehensive suite of tools designed to enhance the efficiency and effectiveness of research activities. It facilitates seamless data management, allowing researchers to organize and analyze large datasets with ease. These platforms often include collaborative features, enabling teams to communicate and share resources effectively. Additionally, such software offers a range of analysis tools tailored to both qualitative and quantitative research methodologies. The table below shows the list of softwares used by different departments in The Cochin College

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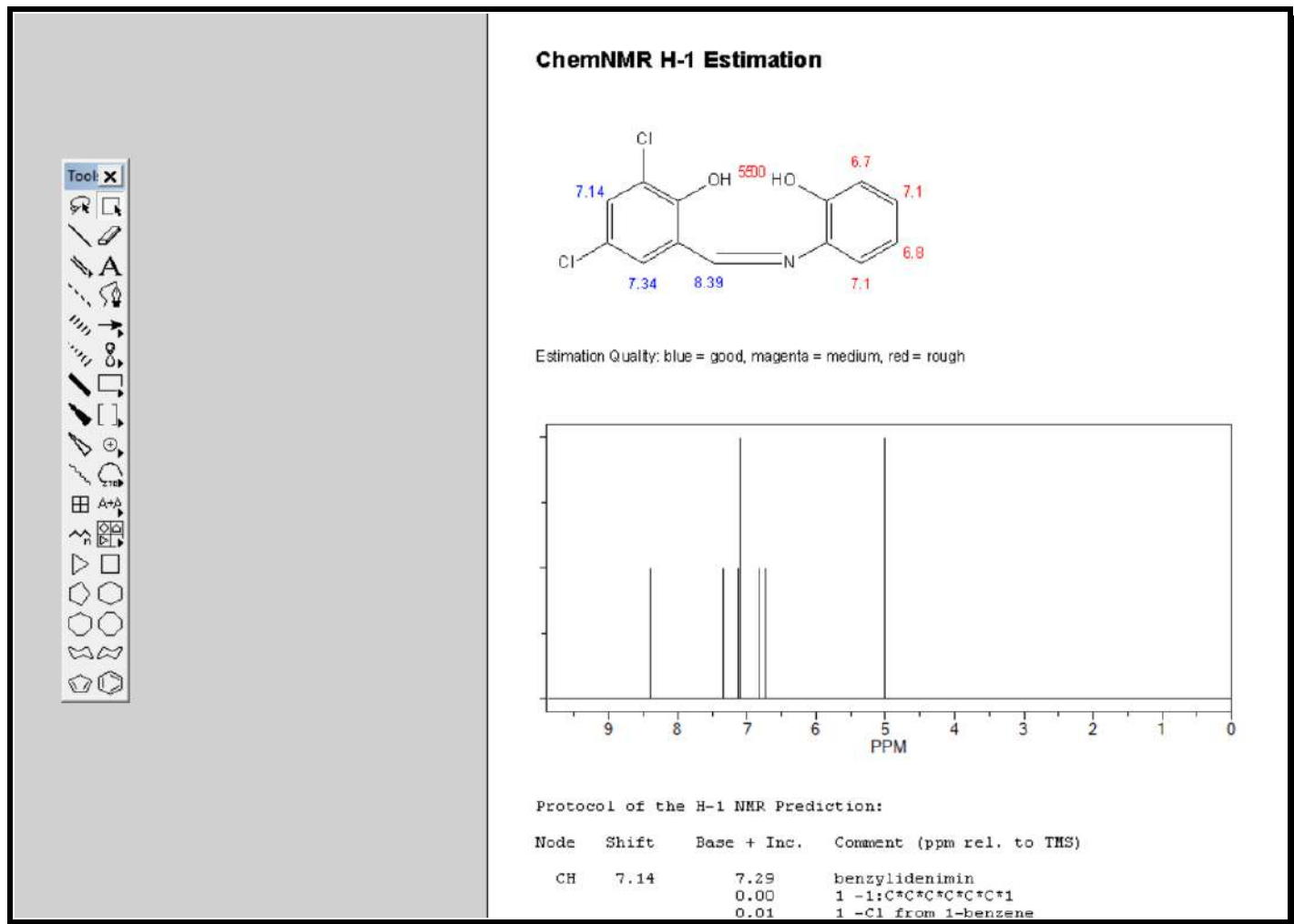


Figure 1: Chemdraw Software





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```

Arrays | Arduino 1.8.16
File Edit Sketch Tools Help
Arrays
-
Arrays
Demonstrates the use of an array to hold pin numbers in order to iterate over
the pins in a sequence. Lights multiple LEDs in sequence, then in reverse.

Unlike the For Loop tutorial, where the pins have to be contiguous, here the
pins can be in any random order.

The circuit:
- LEDs from pins 2 through 7 to ground

created 2008
by David A. Mellis
modified 30 Aug 2011
by Tom Igoe

This example code is in the public domain.

https://www.arduino.cc/en/Tutorial/BuiltInExamples/Arrays
*/

int timer = 100; // The higher the number, the slower the timing.
int ledPins[] = {
  2, 7, 4, 6, 5, 3
}; // an array of pin numbers to which LEDs are attached
int pinCount = 0; // the number of pins (i.e. the length of the array)

void setup() {
  // the array elements are numbered from 0 to (pinCount - 1).
  // use a for loop to initialize each pin as an output:
  for (int thisPin = 0; thisPin < pinCount; thisPin++) {
    pinMode(ledPins[thisPin], OUTPUT);
  }
}

void loop() {
  // loop from the lowest pin to the highest:
  for (int thisPin = 0; thisPin < pinCount; thisPin++) {
    // turn the pin on:
    digitalWrite(ledPins[thisPin], HIGH);
    delay(timer);
  }
}

```

Figure 2: Arduino IDE Software





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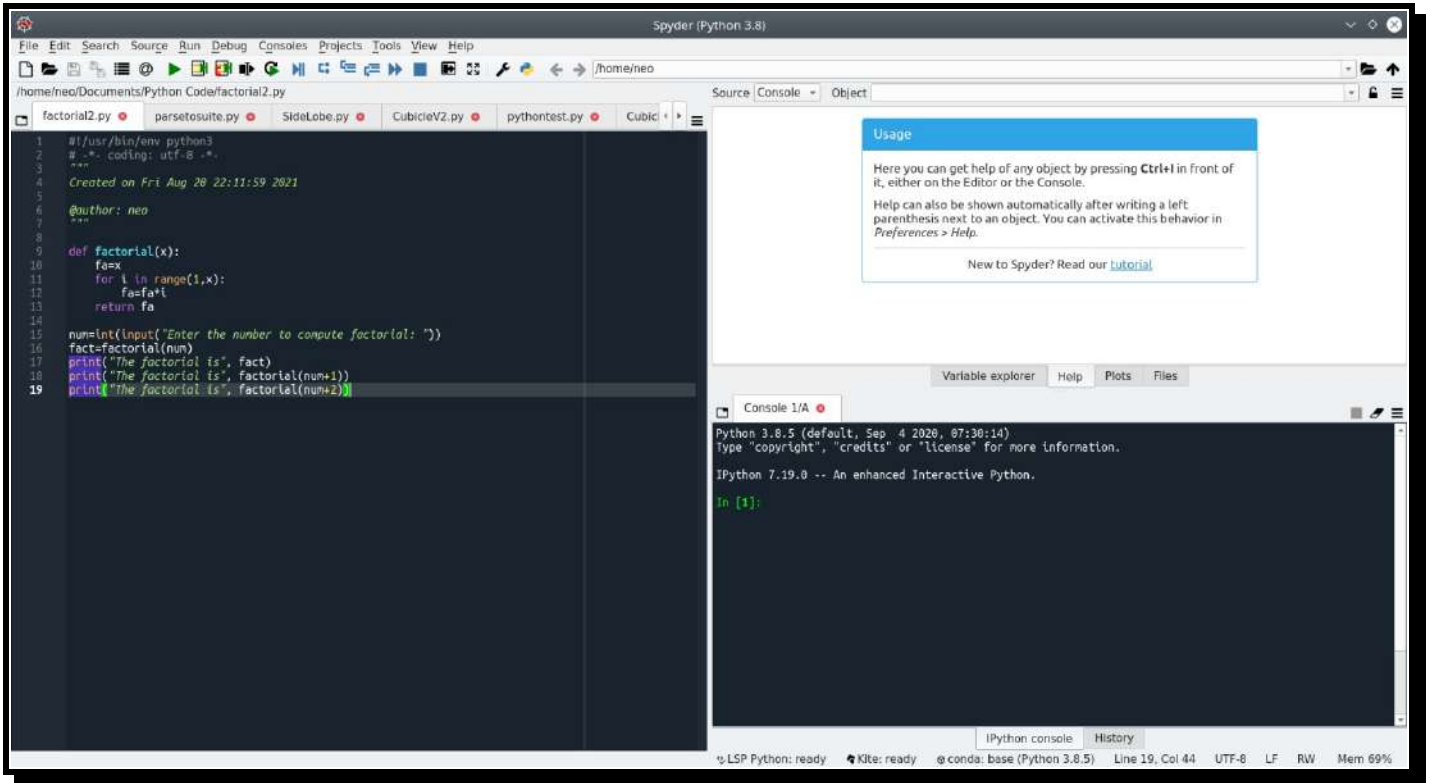


Figure 3: Python Spyder IDE





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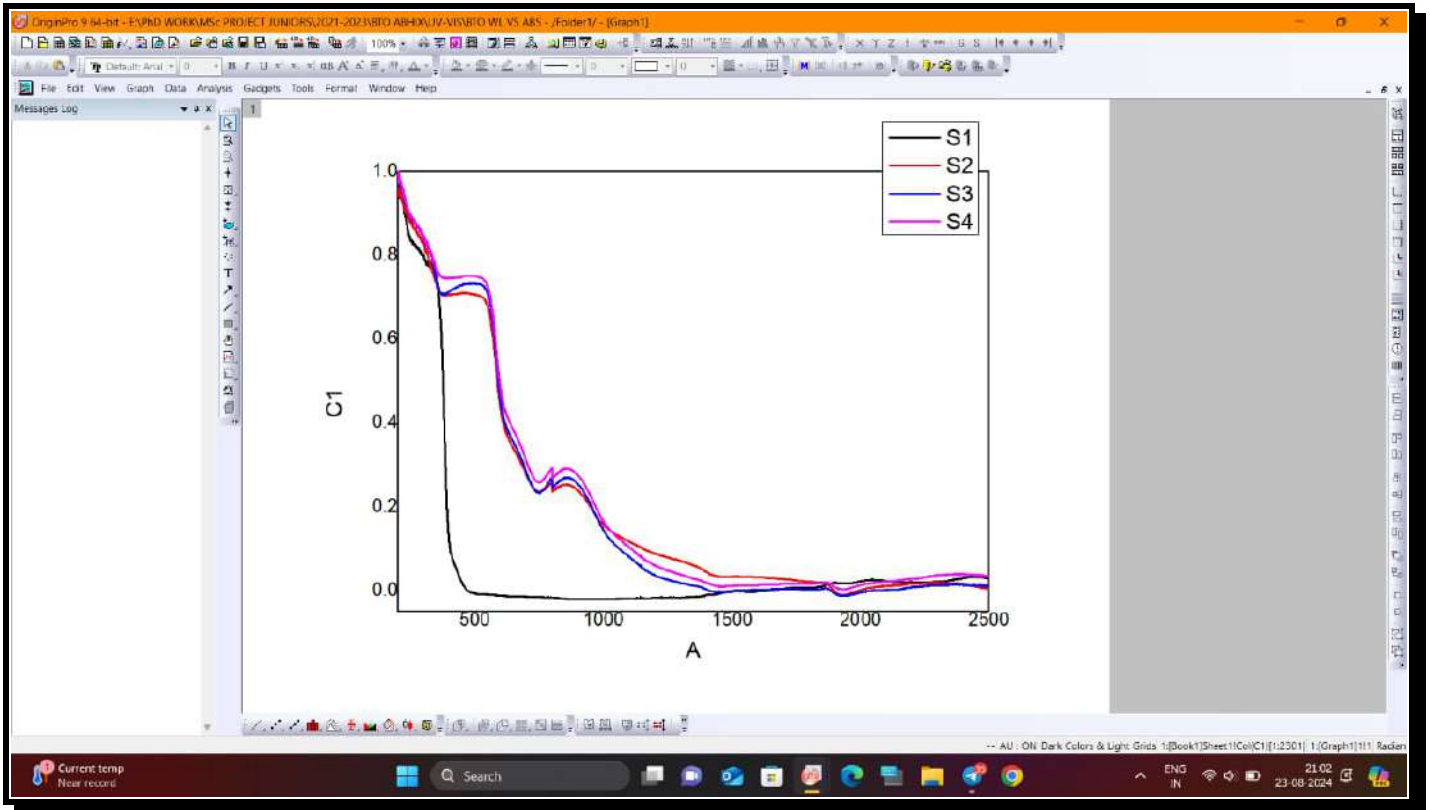


Figure 4: Origin Software



Mrudula Menon V.
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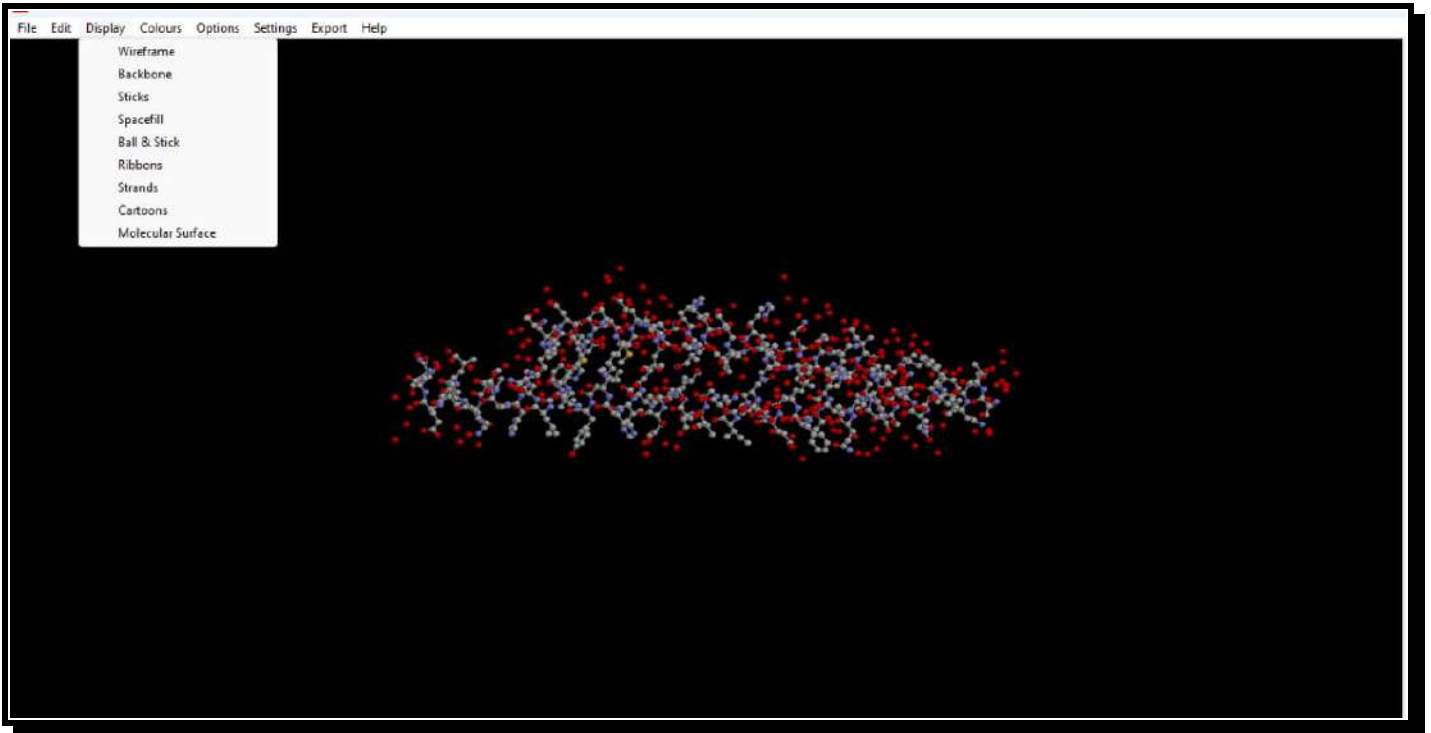


Figure 5: Rasmol Software





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PEx Exercise 3: Neurophysiology of Nerve Impulses > Activity 3: The Action Potential: Threshold

Overview Objectives Introduction Pre-lab Quiz Experiment Post-lab Quiz Review Sheet Lab Report

4. You will now continue to observe the effects of incremental increases of the stimulus voltage.

Increase the voltage by 10 mV by clicking the + button beside the voltage display and then click **Single Stimulus**.

Repeat this step until you stimulate the axon at 50 mV and then click **Record Data** to display your results in the grid.

Stimulus Voltage (mV)	Peak Value at R1 (µV)	Peak Value at R2 (µV)	Action Potential
10	0	0	No
20	100	100	Yes

Record Data

Undo Reset

Figure 6: PhysioEx Software





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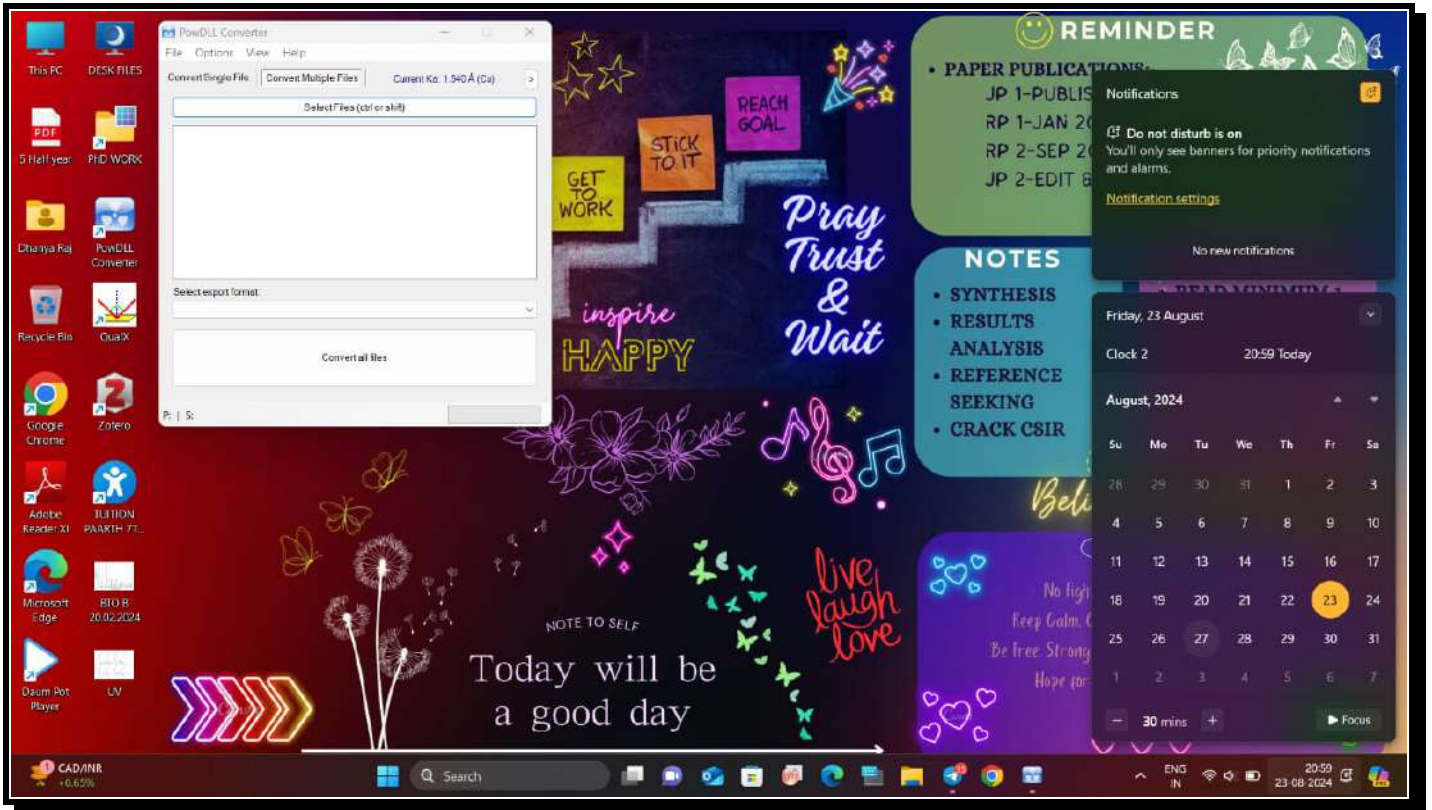


Figure 7: PowDLL Software



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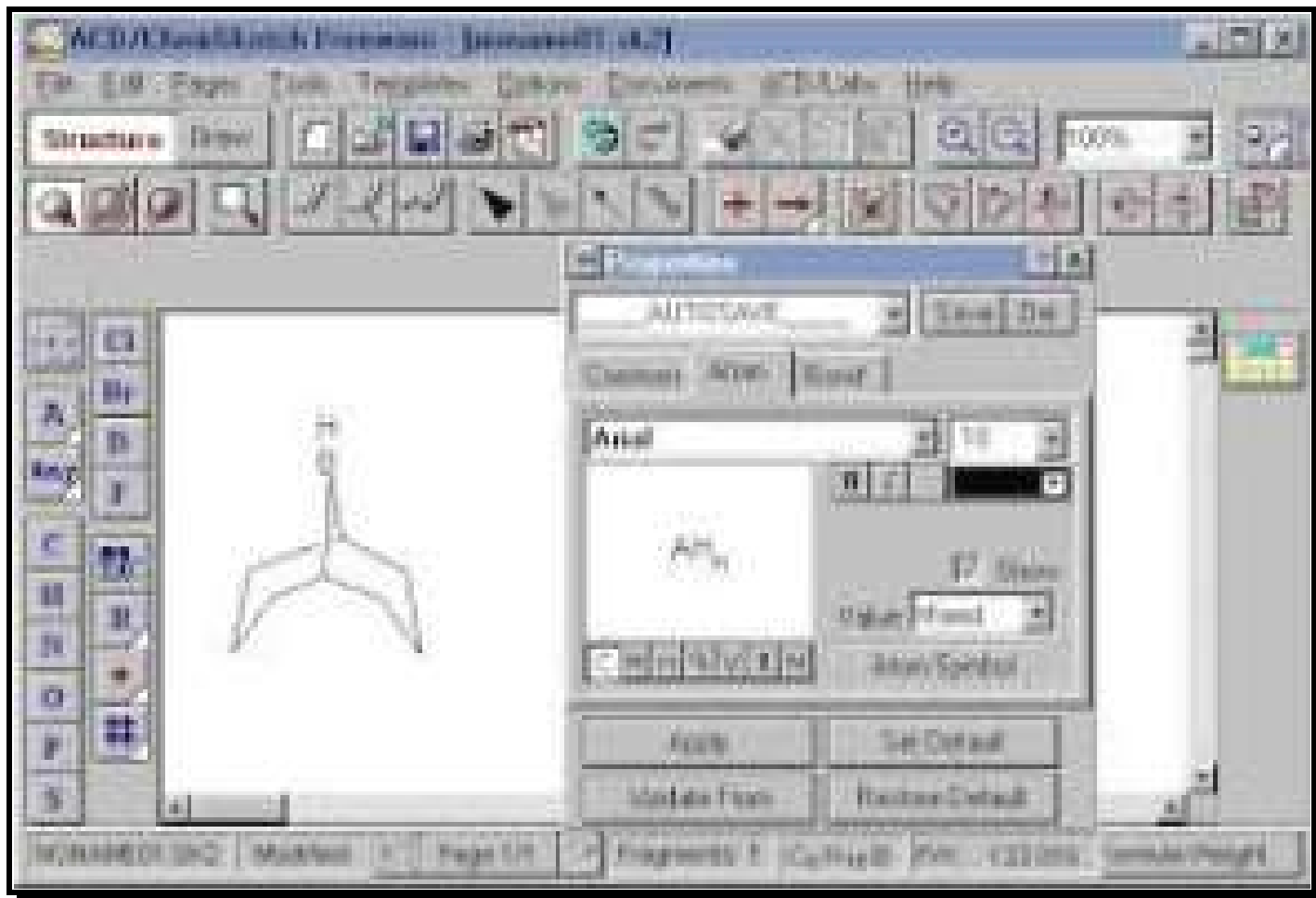


Figure 8: ChemSketch Software





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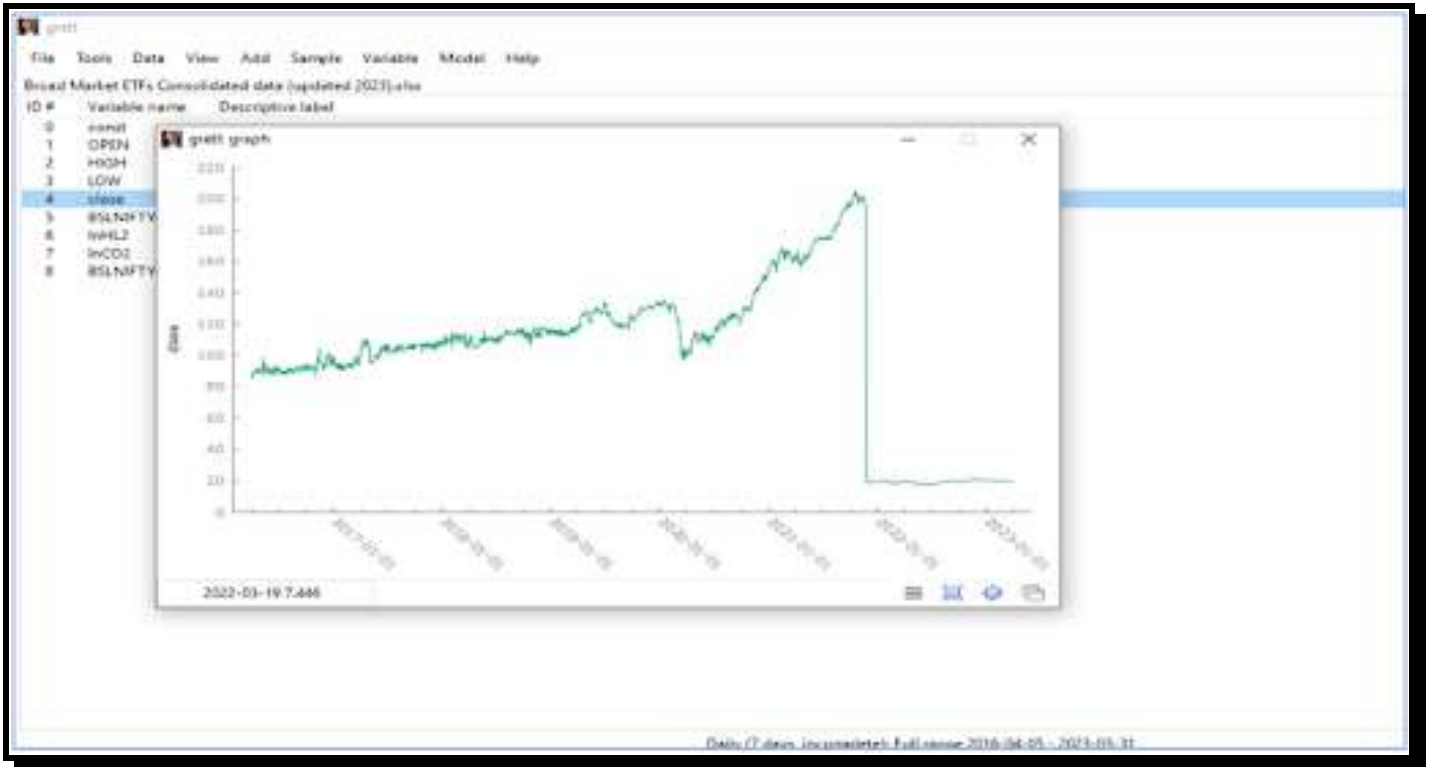


Figure 9: Gretl Software





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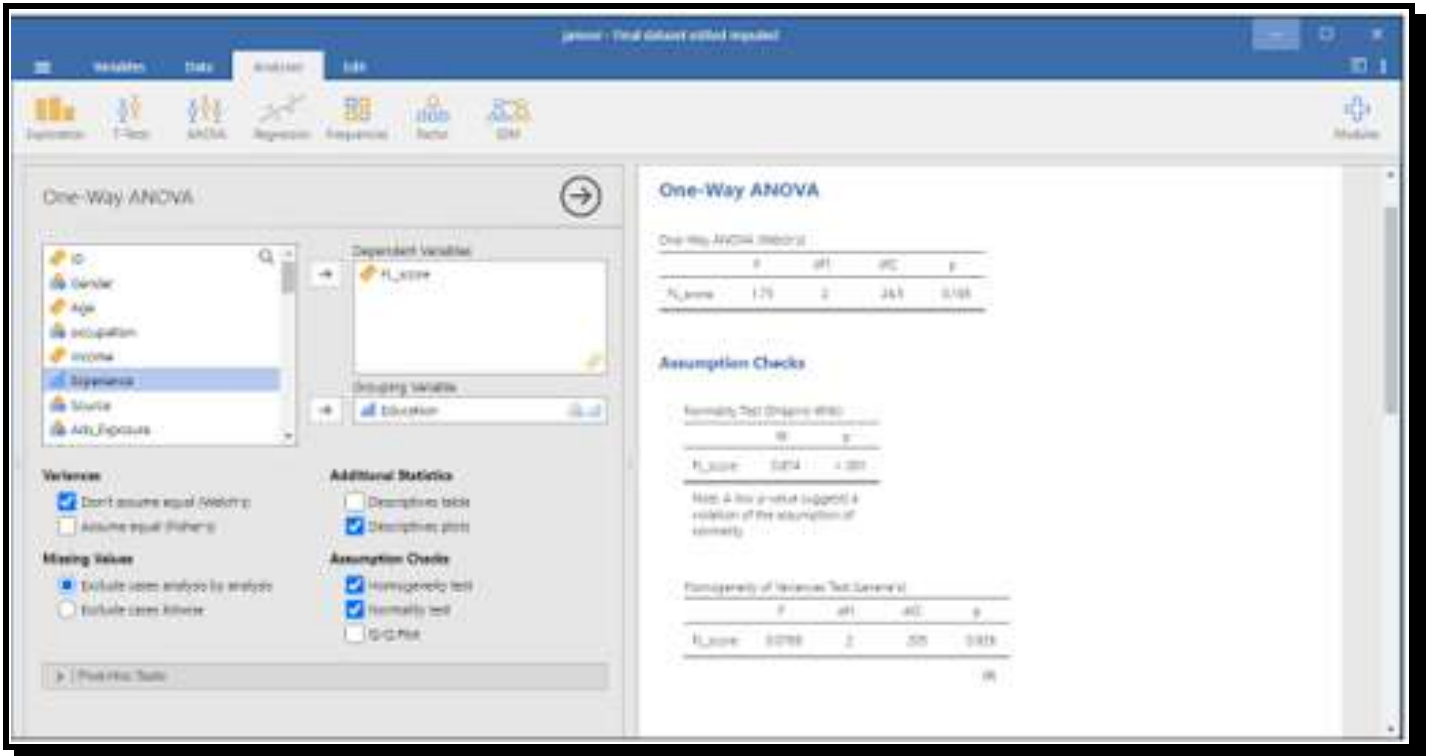


Figure 10: Jamovi Software





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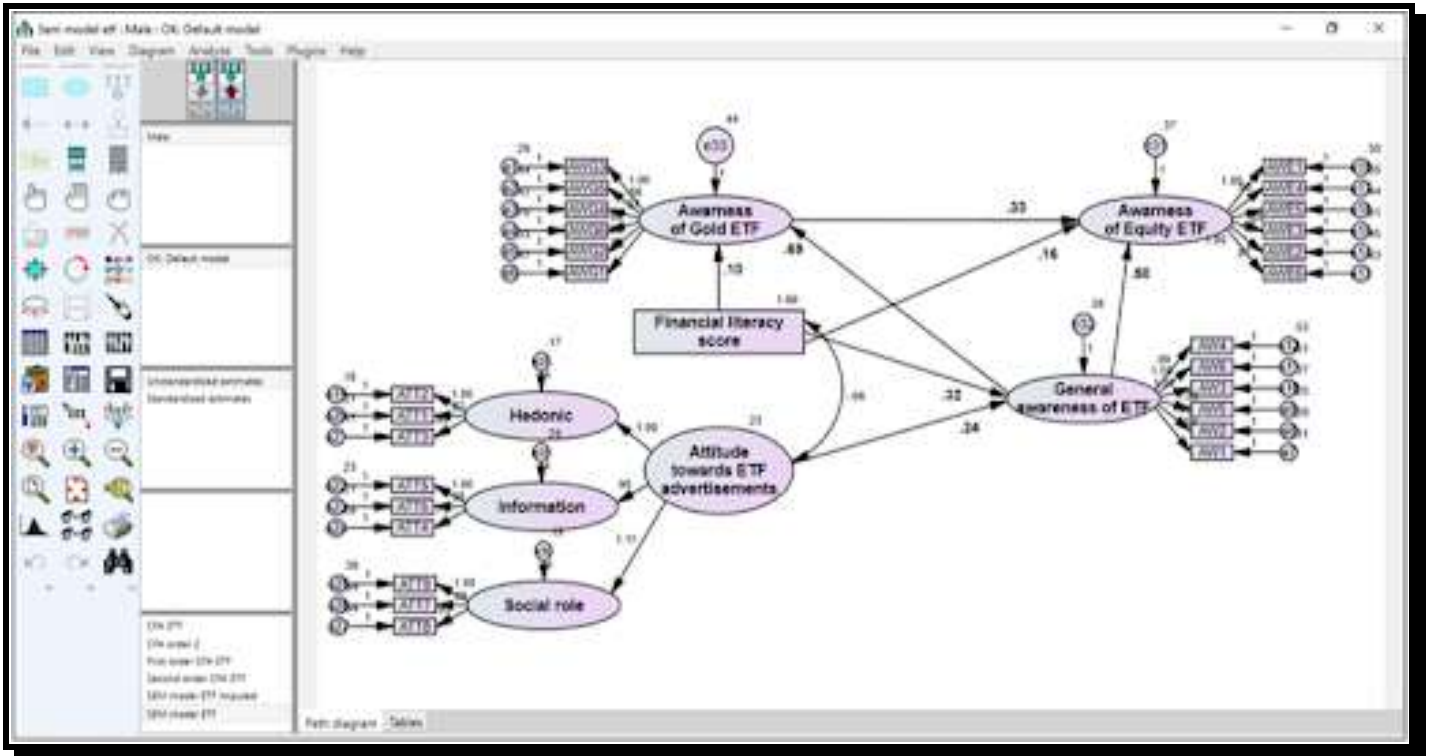


Figure 11: IBM AMOS Software





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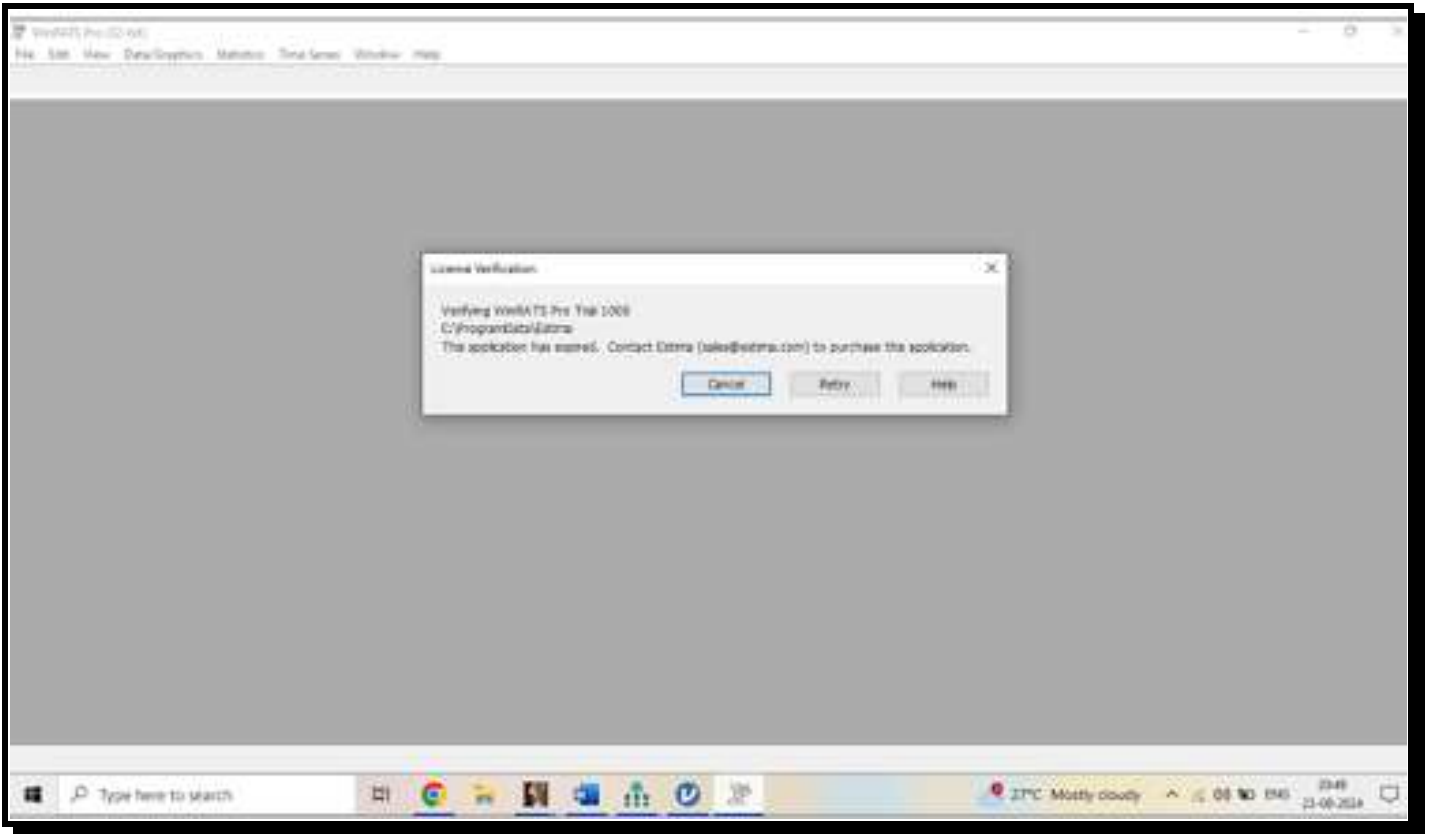


Figure 12: RATS Software





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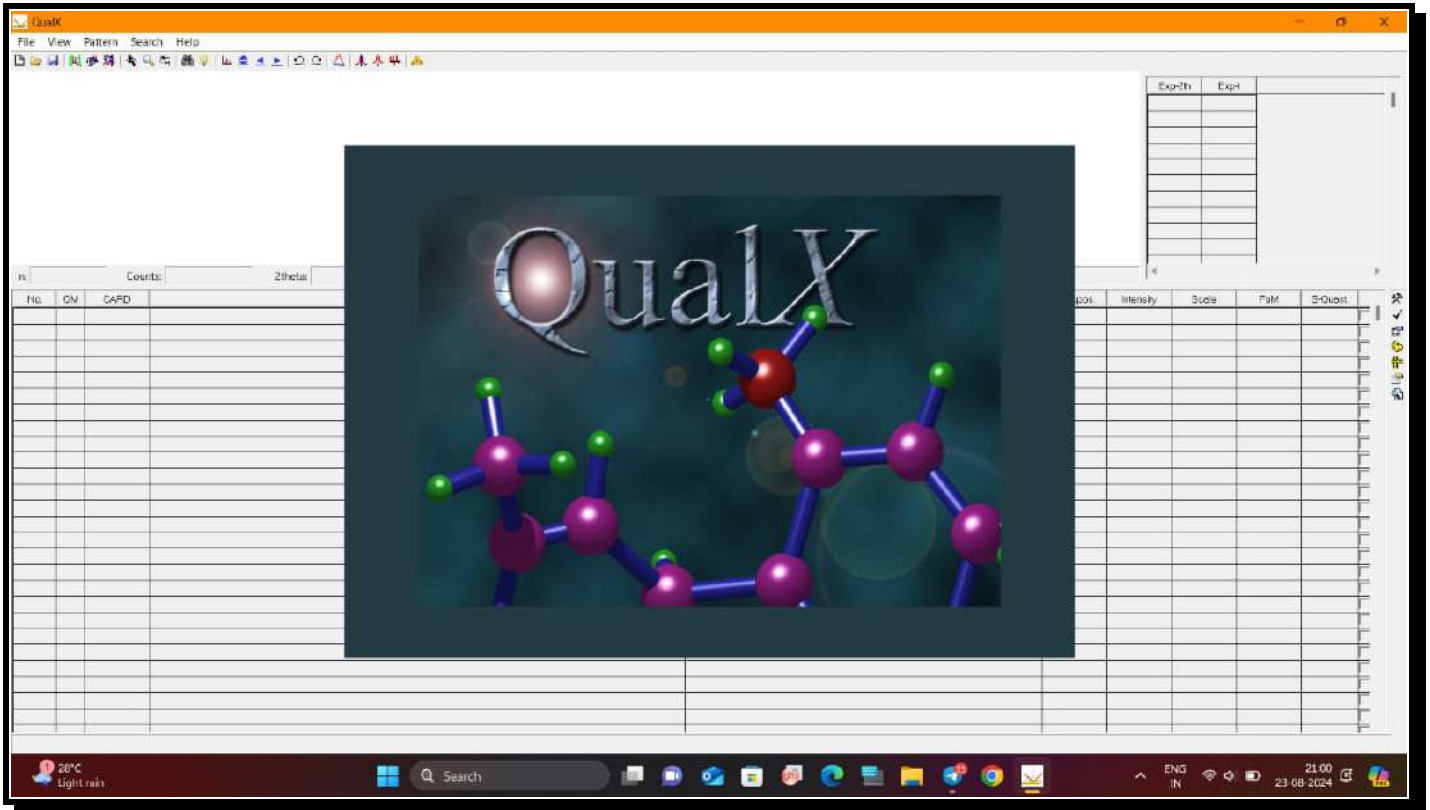


Figure 13: Qualx Software





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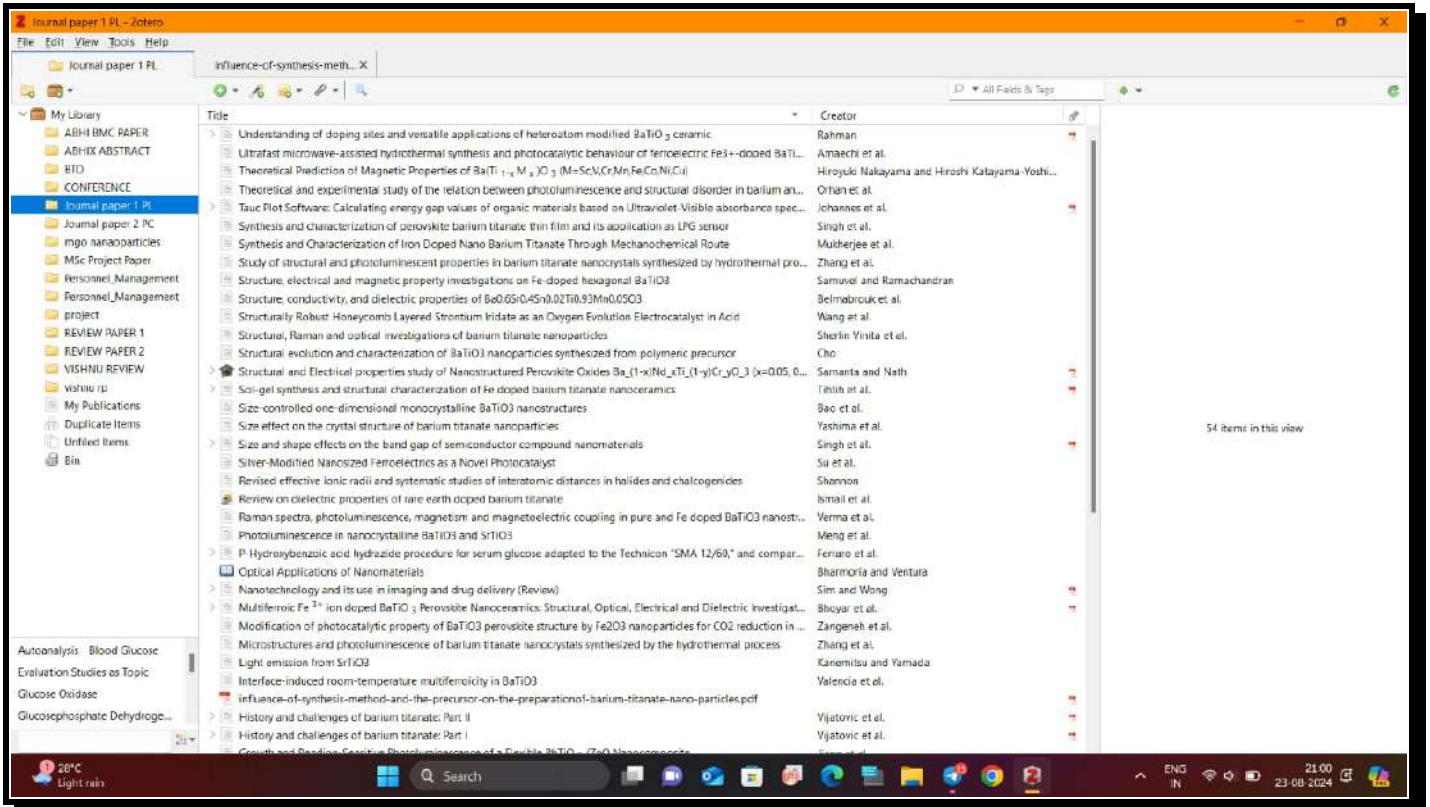


Figure 14: Zotero Software





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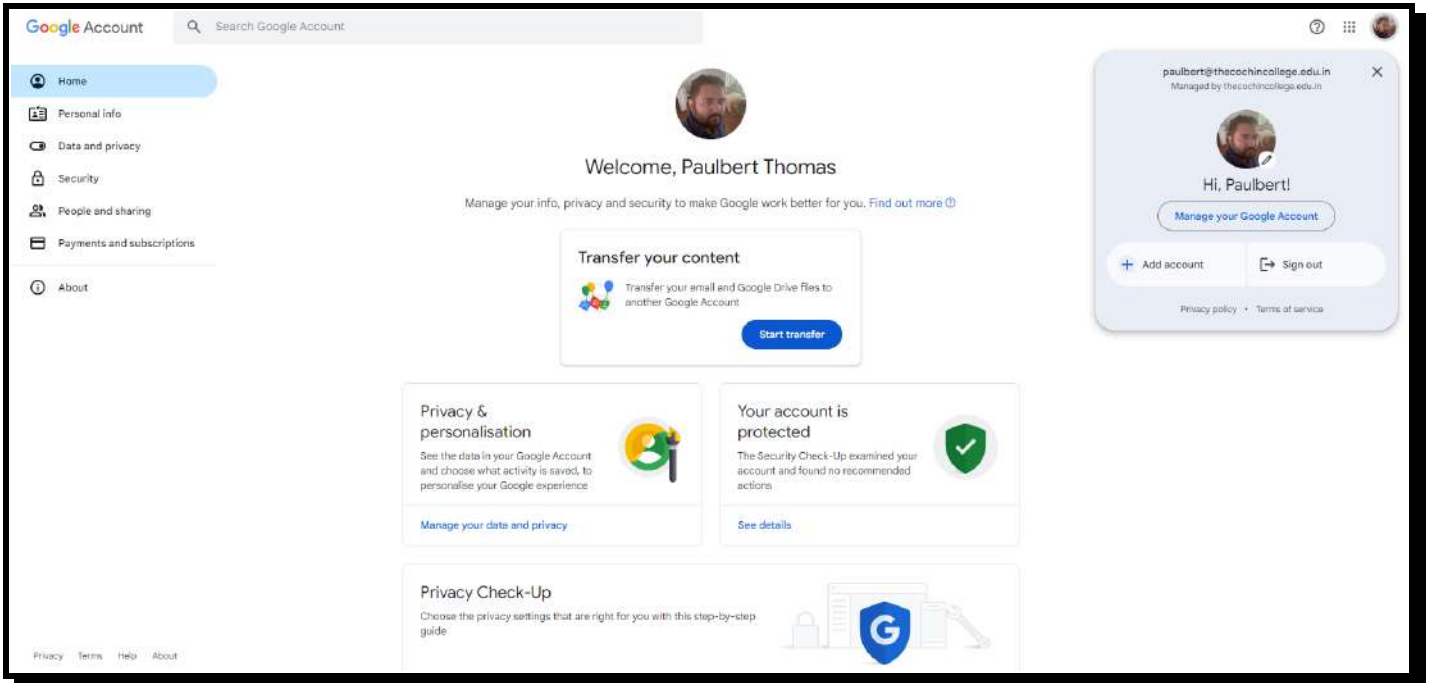


Figure 15: Google Workspace for Education which can be used for accessing online educational resources that offer free usage to students with institutional email

