

# Introduce My Self

Name: **PROTIMA DASH (PD)**

Designation: **Lecturer (Senior) in  
Mathematics**

Department of General

Educational

Development (GED)

Daffodil International University.

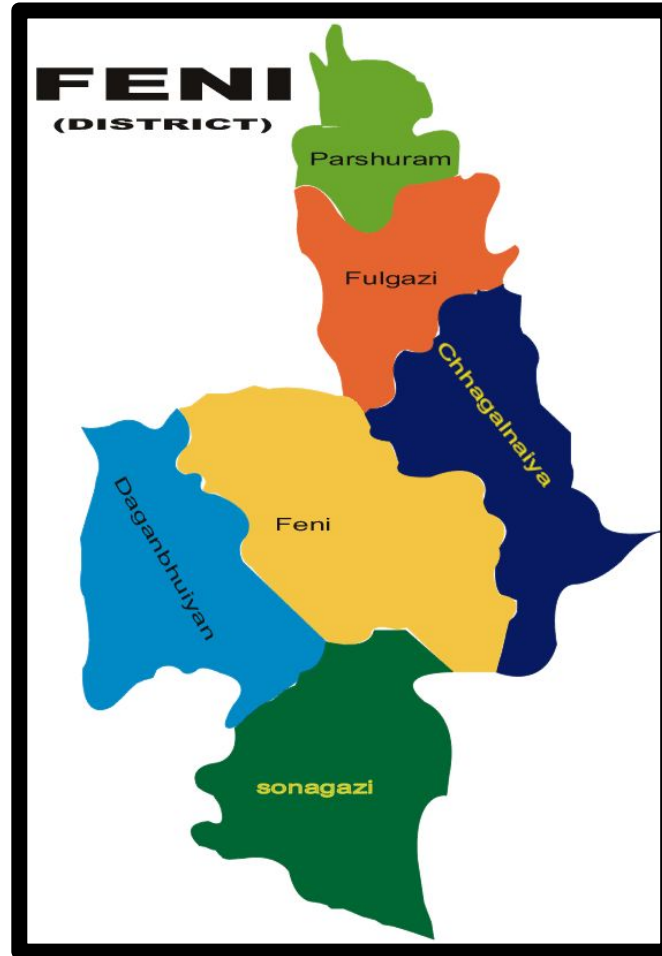
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# Home Town



# Educational Background

**S.S.C: Motijheel Model High School and College, Dhaka (in 1995)**



**H.S.C: Central Women's College, Dhaka (in 1997)**





B.Sc. : Jahangirnagar University  
(in 2003)  
First class Third



M.Sc. : Jahangirnagar University  
(in 2004)  
First class First

M.Phil. : Start in 2014  
Jahangirnagar University  
First part has completed.  
2<sup>nd</sup> part to be continuing.



# Course Outline

*Course Title: Numerical Methods*

*Course Code : CSE 235*

- ✓ Error Discussion.
- ✓ Solution of Algebraic & Transcendental Equation.
- ✓ Solution of System of Linear Equation.
- ✓ Interpolation.
- ✓ Curve Fitting.
- ✓ Numerical Differentiation.
- ✓ Numerical Integration.

## Marks Distribution

□	Attendance:	07 %
□	Class Test:	15 %
□	Assignment:	04 %
□	Presentation:	06%
□	<b>Class Performance:</b>	<b>03%</b>
□	Mid Exam:	25%
□	<u>Final Exam:</u>	<u>40 %</u>
	Total:	100 %

1. If you will attend all classes then you will get 07 marks.
2. I will conduct **3 CT** and you will get average marks of **3 CT**.
3. If you will not copy from other then you will get good marks in Assignment.
4. If you will full-fill all criteria of presentation then you will get good marks.

**Why you study this course?**

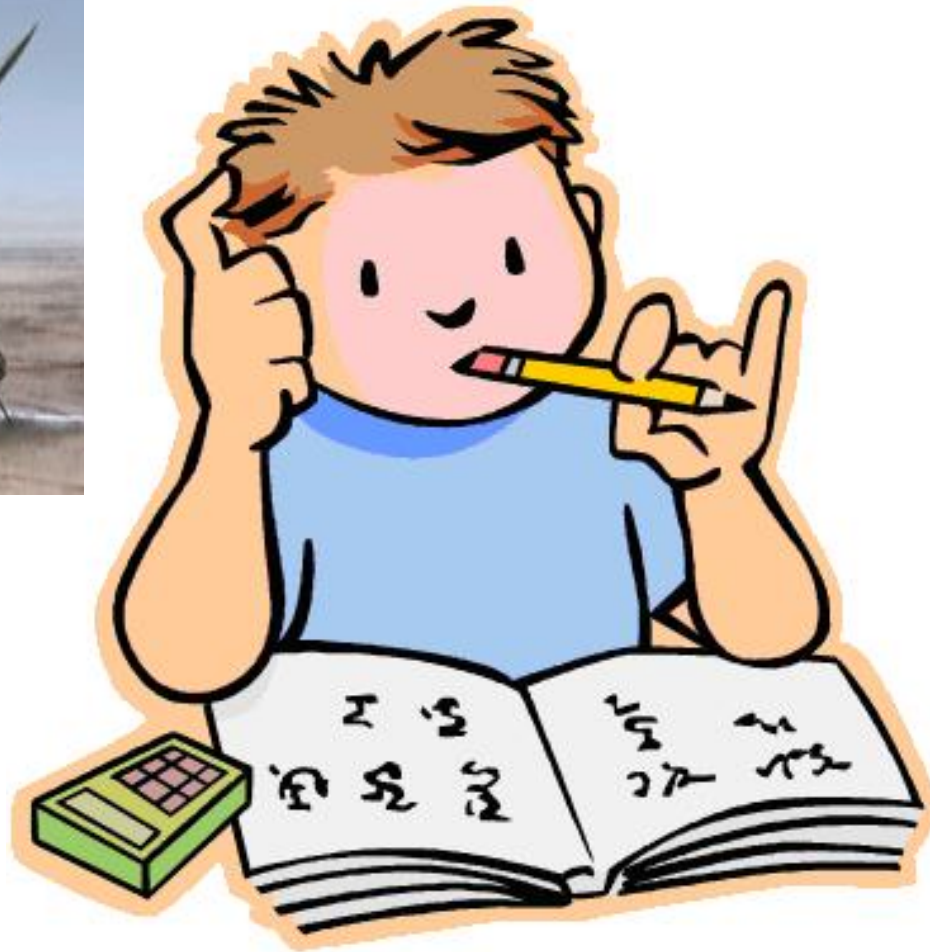
**What to do you want in your future life?**







# Error analysis



Estimate errors in calculation of various methods

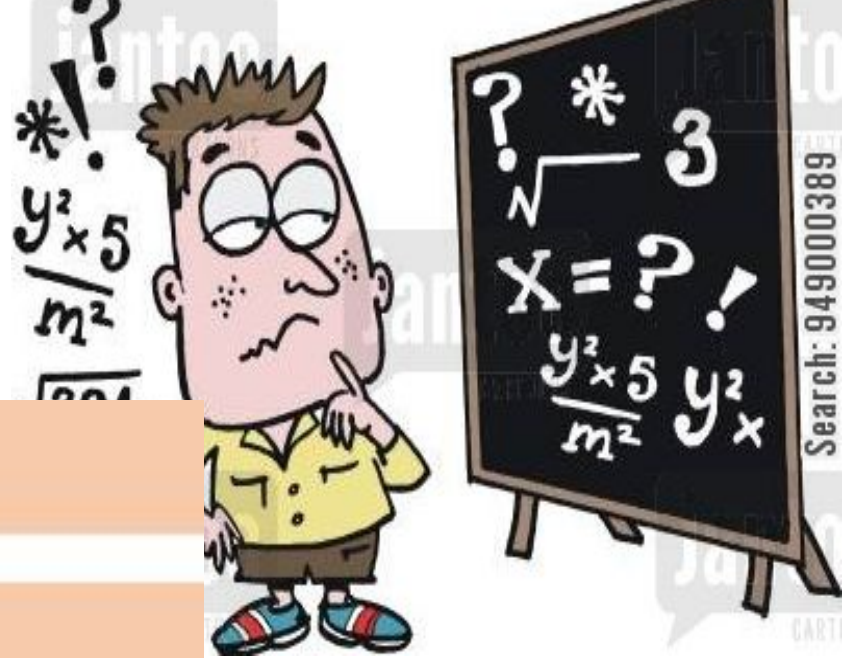
## Able To Solve Equations

### Algebraic Equation:

- $x + 2 = 0$
- $x^2 + 4x - 4 = 0$
- $x^3 - 4x^2 + 6x - 10 = 0$

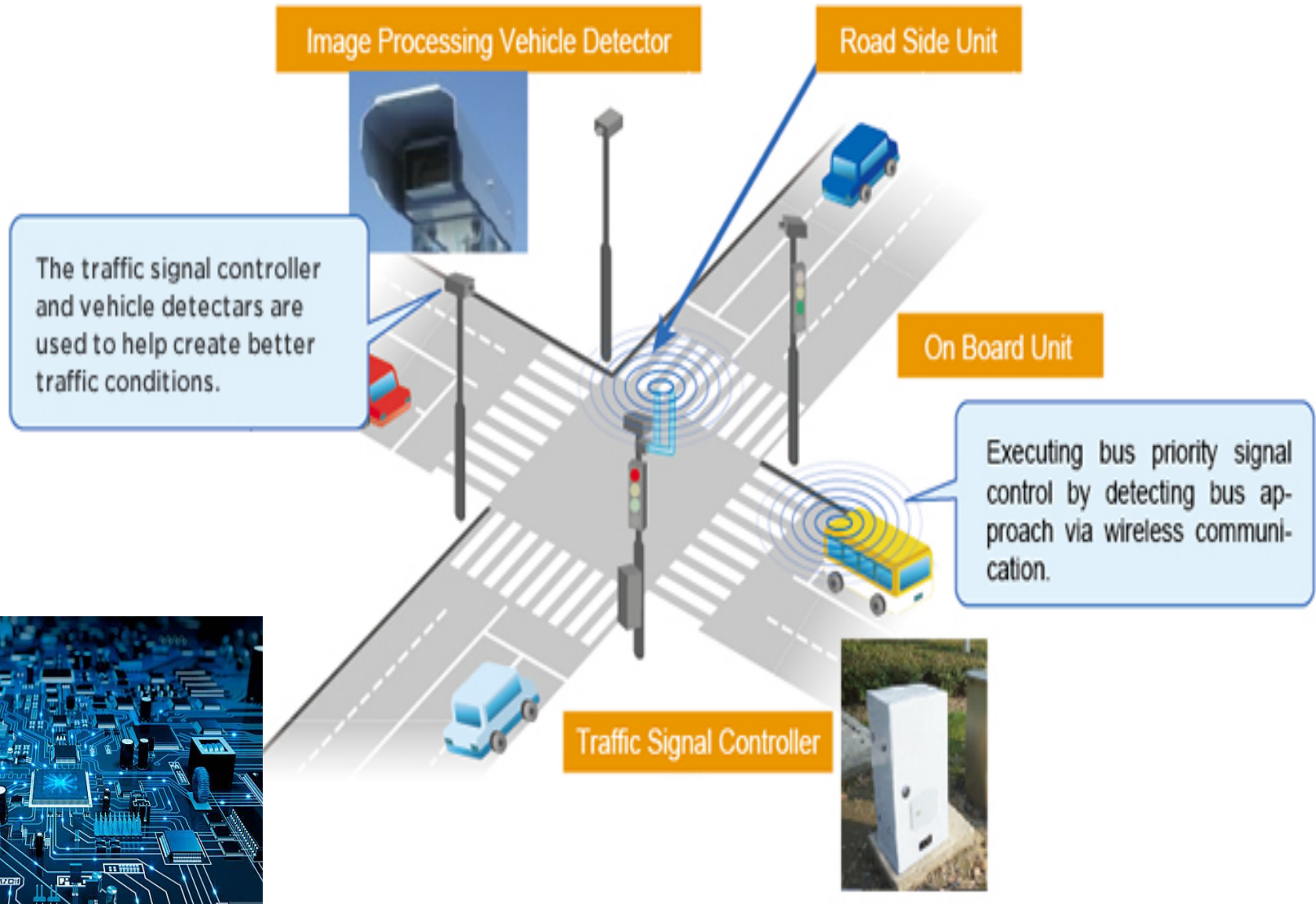
### Transcendental Equation:

- $e^{2x} + \ln x + \sin x + 3 = 0$





# TRAFFIC CONTROL SYSTEM



# Population Analysis or any type of Analysis

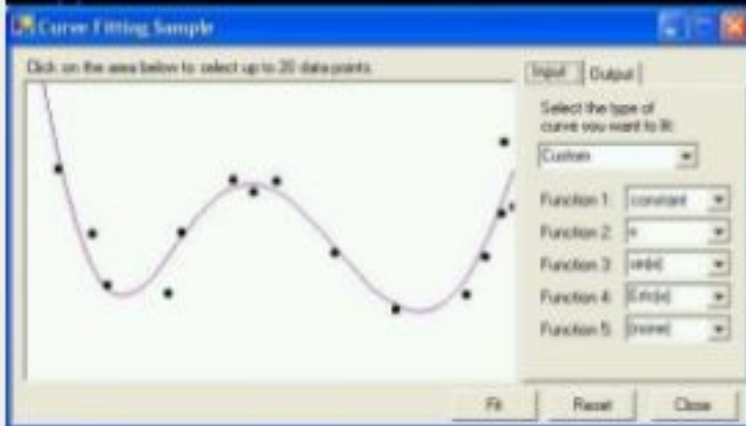
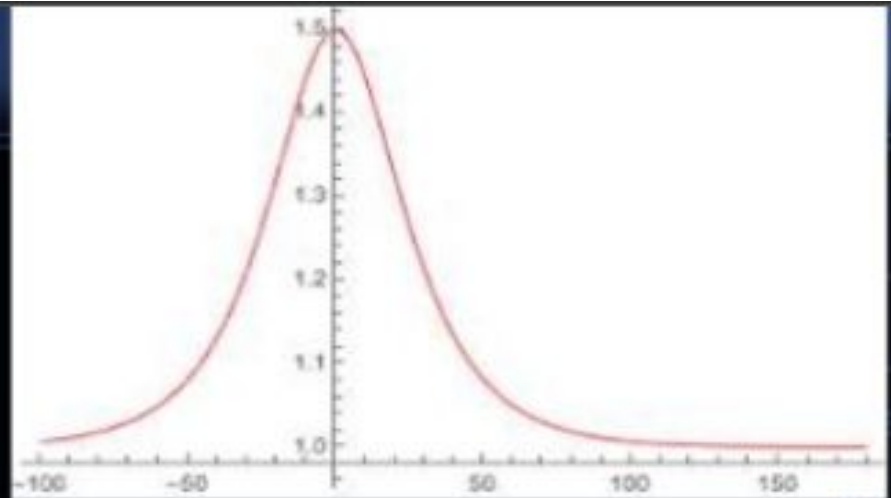


By Interpolation



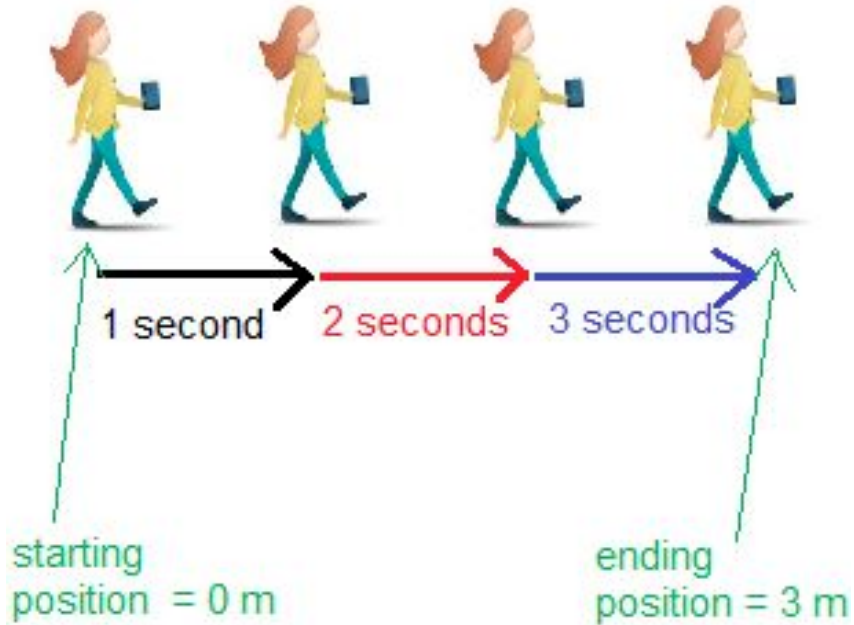
# Finding The Best Fit

Shock wave

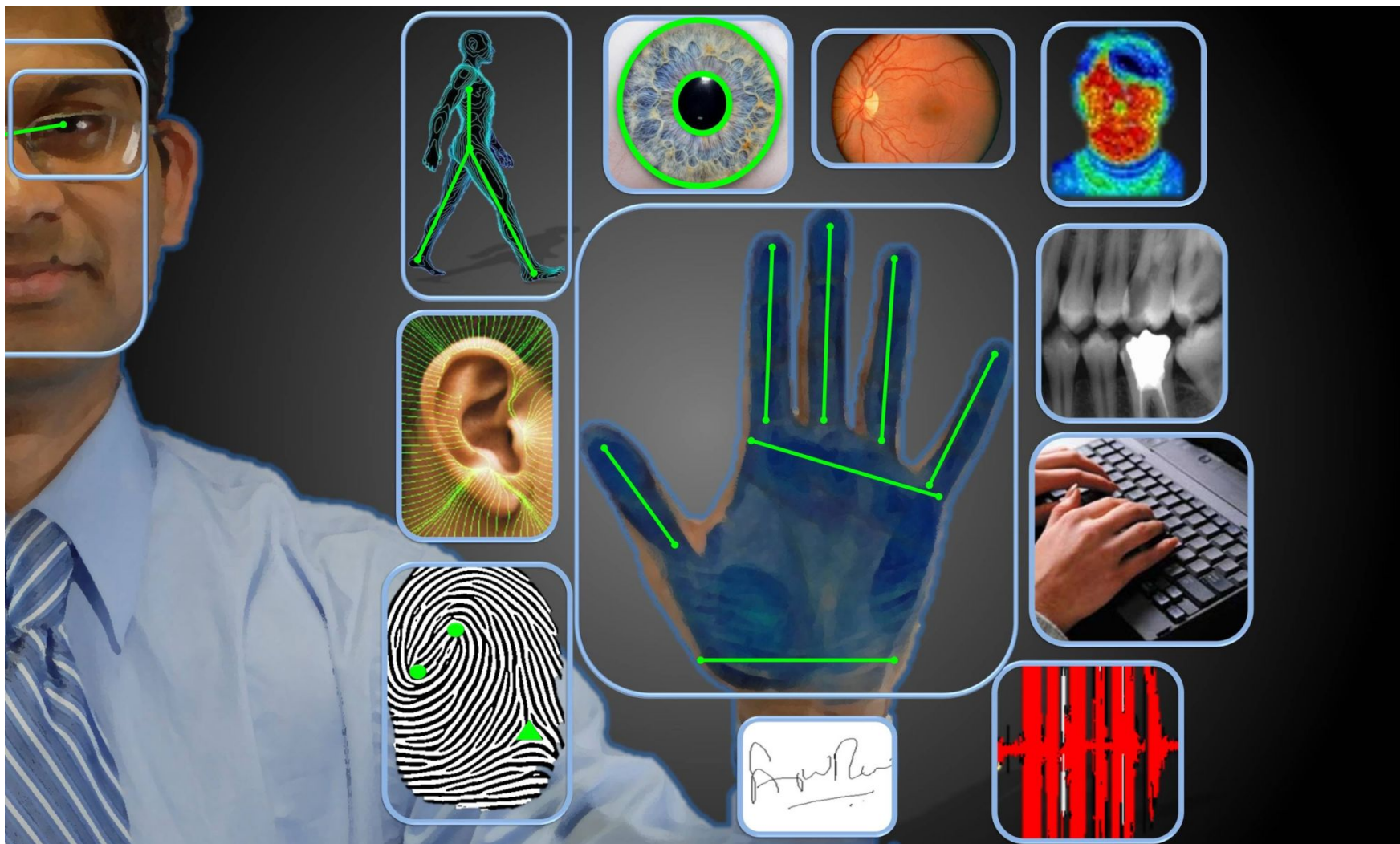


Curve fitting of tabular data

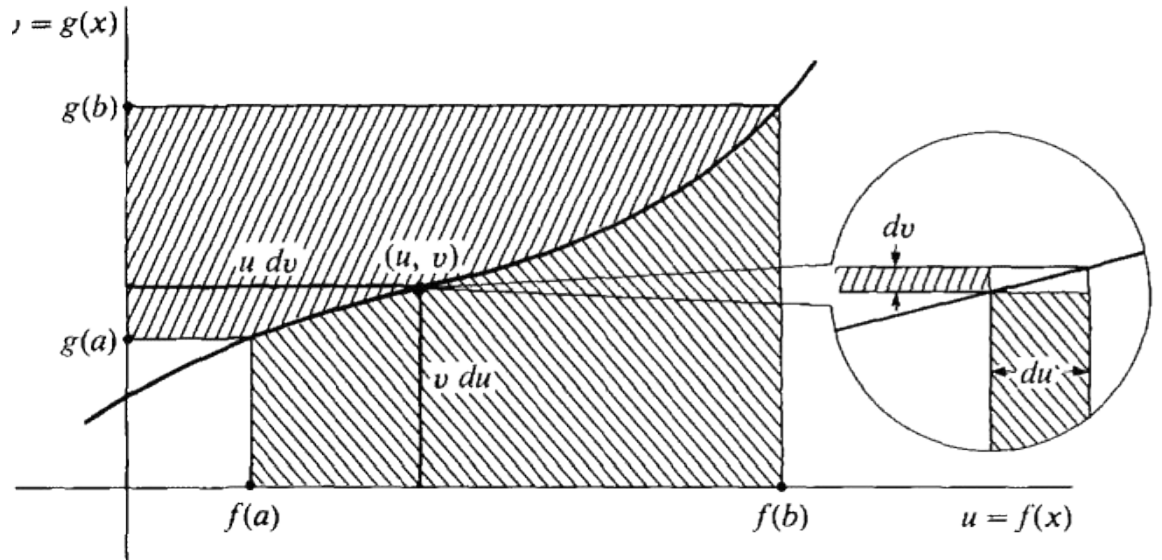
# Rate of Change



# Digital Image processing



# FINDING THE AREA OF AN IRREGULAR FIGURE



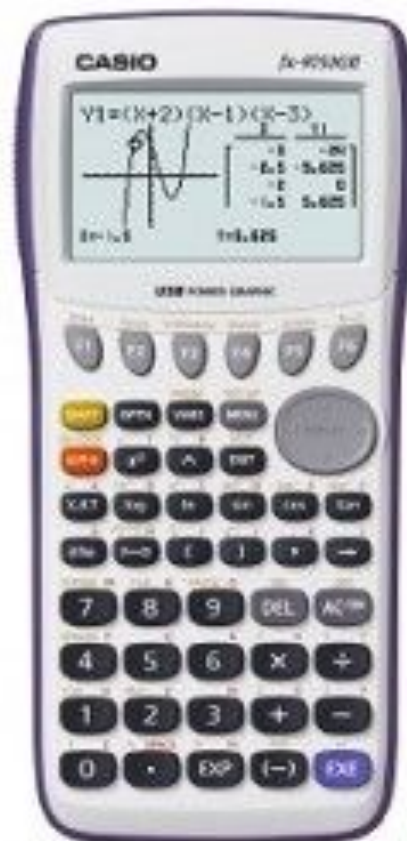


# Game development





- ✓ Made any types of calculator or mathematical logic.



# Some Rules and Regulation

- ✓ You must enter into my class due time. I will called attendance after **15 minutes** from my class start.
- ✓ If you absent **consecutive 2 classes** then you will auto absent from the next class. If you will present after 2 classes then I will contact with parents over phone identify the reason of your absence during my class.
- ✓ If you will fail to doing your CT or submit your assignment or presentation in proper time then I will makeup it if you will show your proper reason about your inability.
- ✓ You must use Google Classroom. Your Google Classroom Code is :
- ✓ Moodle Link :  
<https://elearn.daffodilvarsity.edu.bd/course/view.php?id=3770>

**THANK YOU**

*for coming!*