### "Arithemic / Formula / Comparsion Calculations (Operations) & Conversations"

This project is a part of Arithemic / Formula / Comparsion Calculations (Operations) & Conversations with a limited functionality where following modules are performed

## "Features & Operations"

#### Arithmetic Operations / Calculations

- a) Addition, subtraction, multiplication and division of numbers
- b) There could be multiple numbers upto the user wish for Arithmetic Operator

#### Conversion Operations / Calculations

- a) Centimetres into inches & Vice Versa
- b) Inches into meters & Vice Versa
- c) Foot into inches & Vice Versa
- d) Kilometres into meters & Vice Versa

e) Celsius into Fahrenheit and vice versa

#### Formulas Operations / Calculations

- a) Average: the sum of all the values for a given field in all connected records, divided by the total number of connected records.
- b) Percantage: The number of item user want to enter
- c) Max: the highest value for a given field in all connected records.
- d) Min: the lowest value for a given field in all connected records.
- e) Number is Even or Odd
- f) Number is Prime or Consonant Number
- i) Integer is Postive or Negaitive Number
- j) Square, Cube, Fourth and Fifth-Power of a Number
- k) Find the Area of Triangle, Circle & Sphere
- I) Find the Speed, Distance and Time

#### Comparison Operations / Calculations

- a) Greater Than
- b) Less Than
- c) Both are Equal or Unequal

- d) Greater Than Equal To
- e) Less Than Equal To

#### Error Handing

- a) At each level
- b) If some information is not present in the database, it should display proper messages.
- c) If a wrong input is entered or some mistake is being done by the user, the system, should assist the user to correct that mistake.

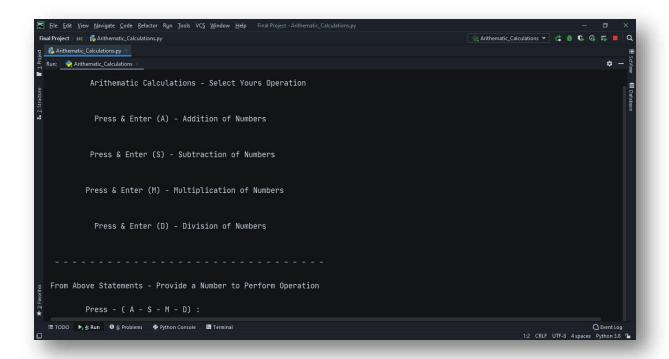
#### Required Artifacts:

- 1. Project Proposal
- 2. Project Report
- 3. Source code (Outputs)

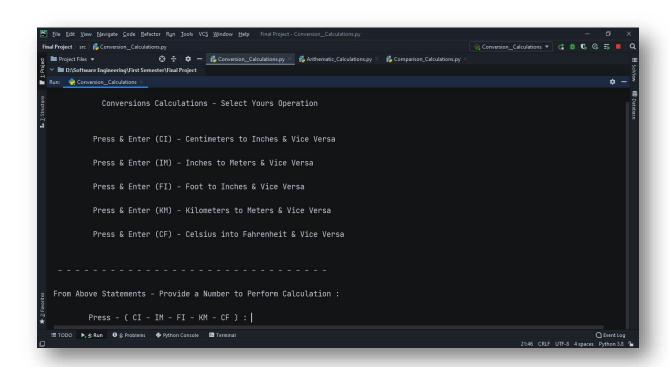
# REPORT (PROJECT PROGRAM & OUTPUT)

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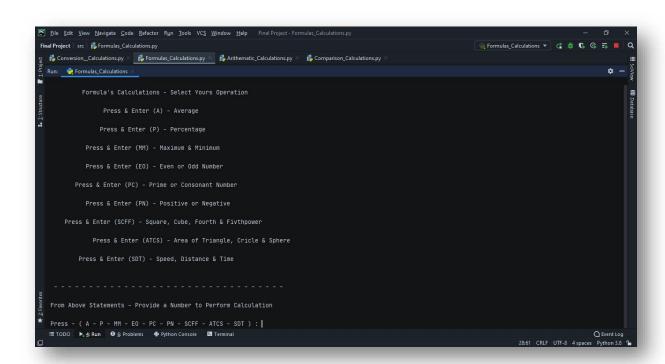
### "Arithmetic Operations / Calculations"



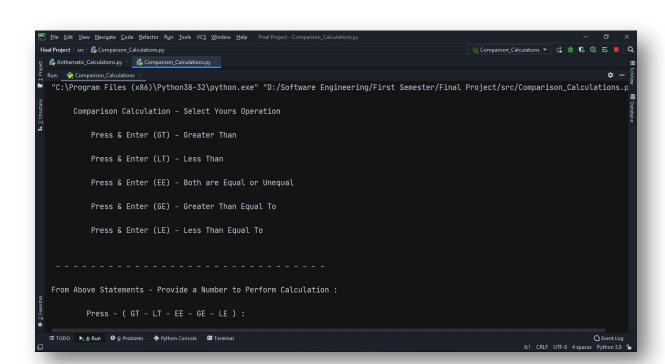
### "Conversion Operations / Calculations"



### "Formulas Operations / Calculations"



### "Formulas Operations / Calculations"



### **Project Syntax**

### <u>&</u> Working

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### Project Syntax Included:

- Python Variables and Input
- Python Data Types
- Python Encyption (chr & ord)
- Python Strings
- Python Decision Constructs (If, If else, elif & Nested If)
- Python Looping (For, While & Nested Loop)
- Python Lists
- Python Functions (User Defined Function)

### **Project Working Included:**

- We have solved the project by Using User-Defined Function.
- We allocated each function in a choice way. So, that user can decide the calculation. He / She wants to perform (Used Loop & Decision Constructs).
- We used a string function for the user. If He/ She input the Upper / Lower case input it will be friendly with both.
- If a user enters an incorrect input. It'll display a proper message "Invalid Output".

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