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# Course Overview

by Ayush Sahu

CSA101 : Problem Solving with  
Programming

# Know your Instructors

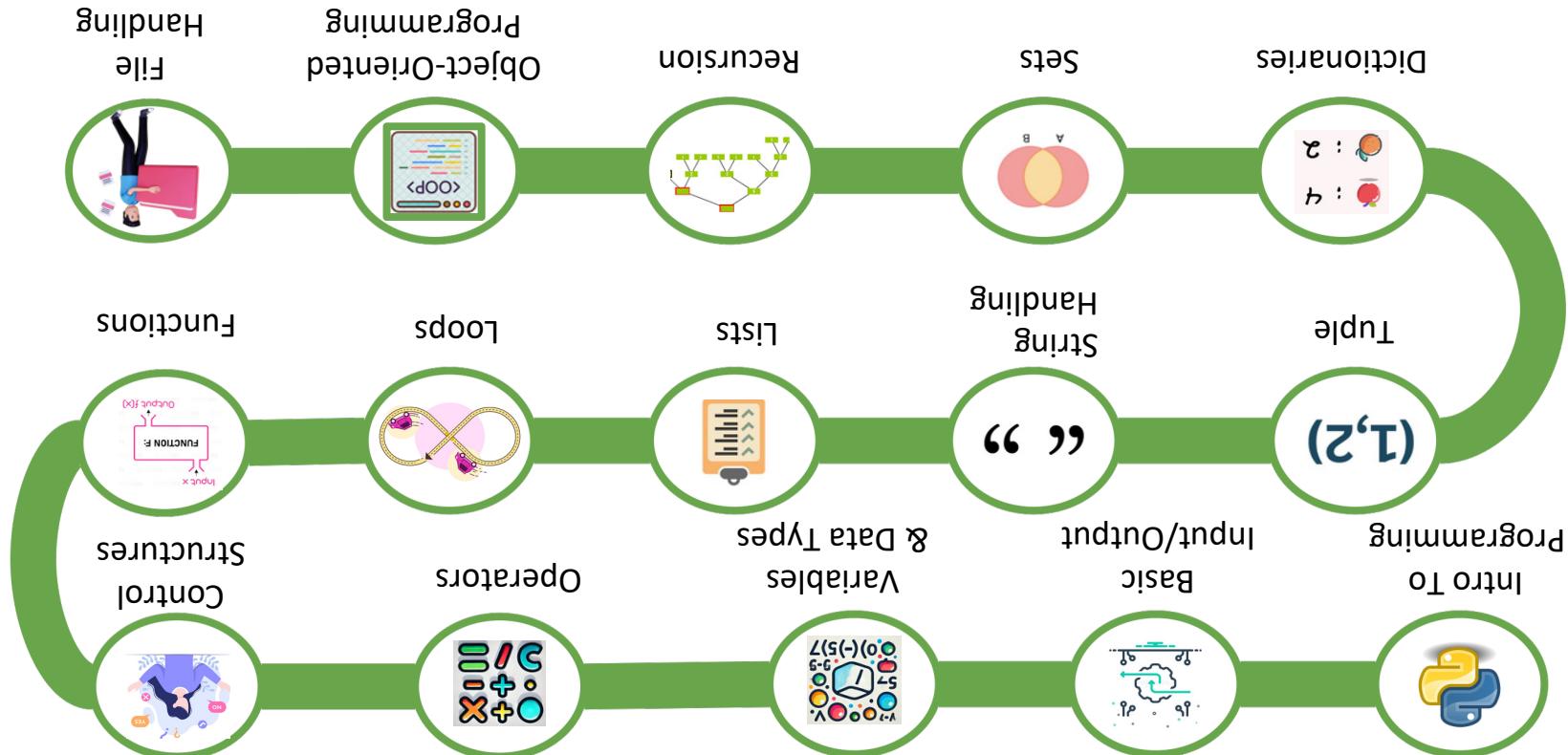
# Your Instructor for Lectures :



- **B.Tech in CSE Rishihood University**
- **3 months of Software Development Experience**
- **Hecta pvt - Frontend Developer**
- **Cracked Jee Mains with 83 Percentile**

**Ayush Sahu**

# Let's dive into the course journey!





# Exciting Projects and Problems!



# How to succeed in this course ?



# NO EXCUSES

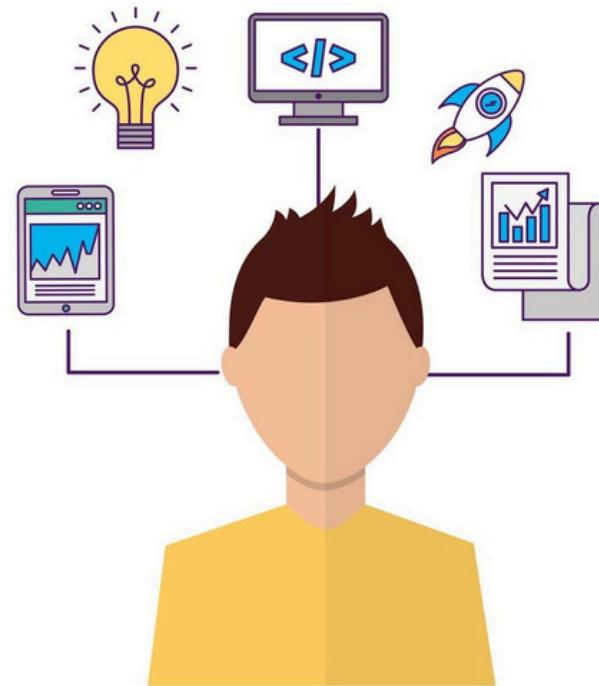
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# What is Programming ?



# Definition :

Programming is the **process of creating instructions** for computers to perform specific tasks.



# Programming Analogy :



# Programming Analogy :



**Providing data and commands to computer.**

**The computer processes the input data using algorithms.**

**The computer produces results or actions based on the processed data.**

# Example : Making a cup of Coffee



# Example : Making a cup of Coffee

**Input:** Adding coffee grounds and water into a coffee machine.



# Example : Making a cup of Coffee

: The coffee machine brewing the coffee.

## Process



# Example : Making a cup of Coffee

**Output:** A freshly brewed cup of coffee being poured into a mug.



# Example : Making a cup of Coffee

Input



Output



Process



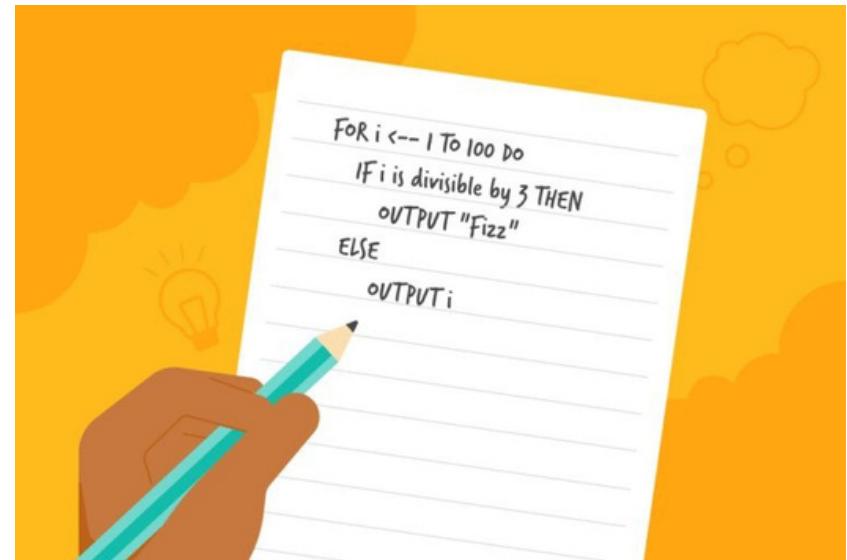
# Pseudocode in Programming

# What is Pseudocode ?



# Pseudocode :

Pseudocode is a simplified, plain-language description of the **steps in a program**, used to plan and communicate ideas before writing actual code.

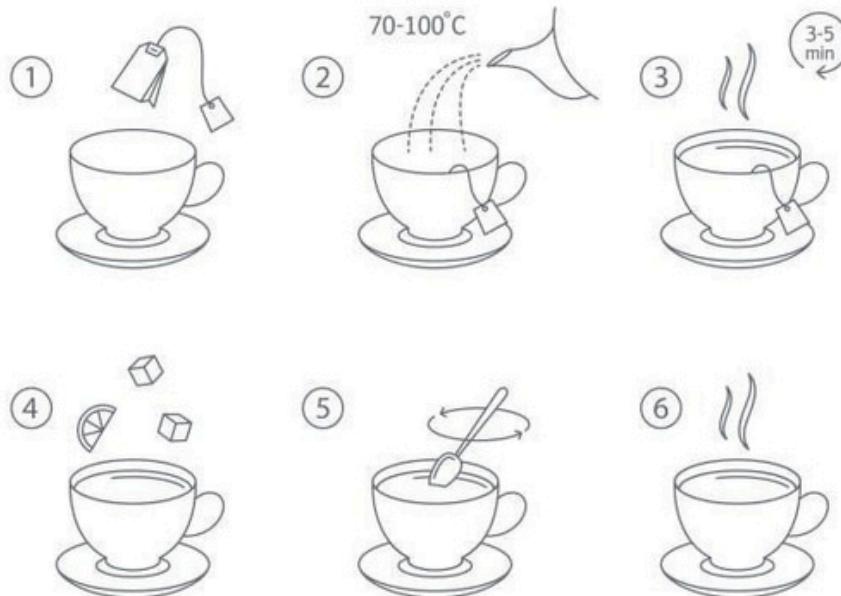


# Classroom Activity

# Let's make coffee :)

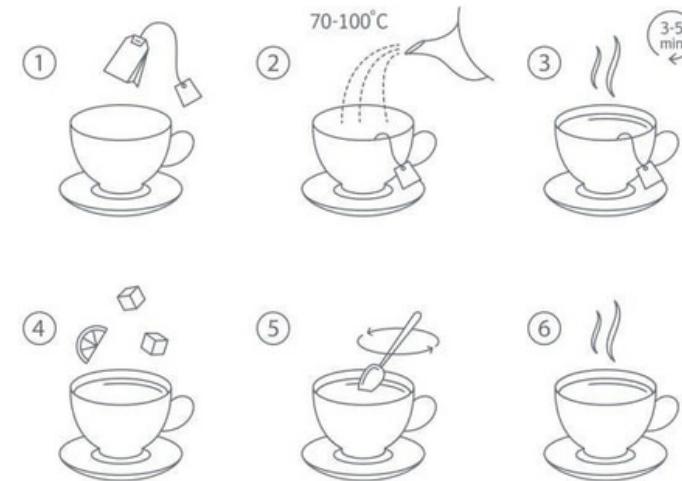


# Steps for making a cup of Coffee :



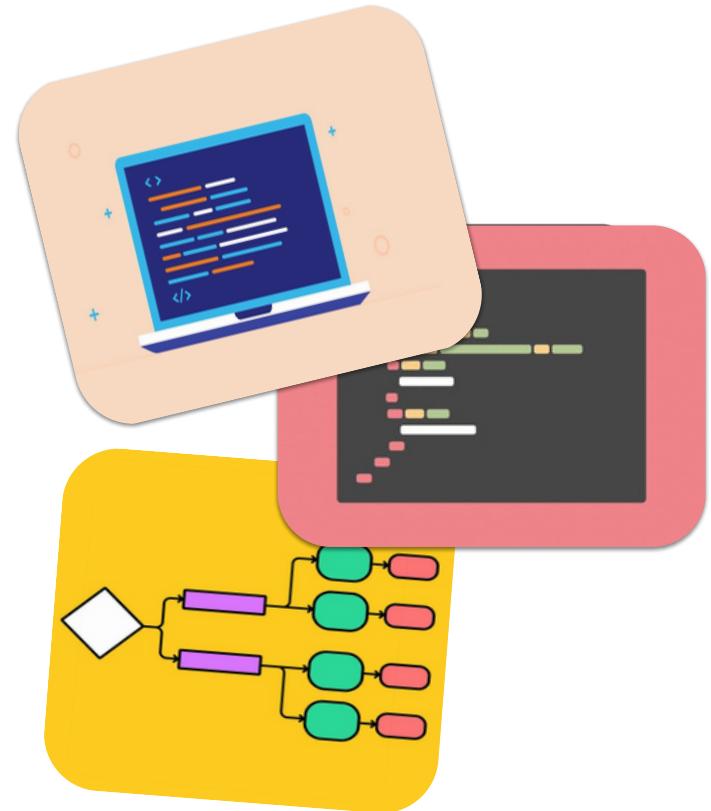
# Steps for making a cup of Coffee :

1. Start
2. Boil water
3. Add coffee bag to cup
4. Pour boiling water into cup
5. Decide: Do you want to add milk?
  - Yes: Add milk
  - No: Skip to next step
6. Stir the coffee
7. End



# Summary

- **Programming** - Instructions for computers to perform specific tasks.
- **Pseudocode** - Plain-language description of the steps in a program



# Selfie Time!

# Thank You!