



# PYTHON FOR COMPUTATIONAL PROBLEM SOLVING

## Structure of Python Programs

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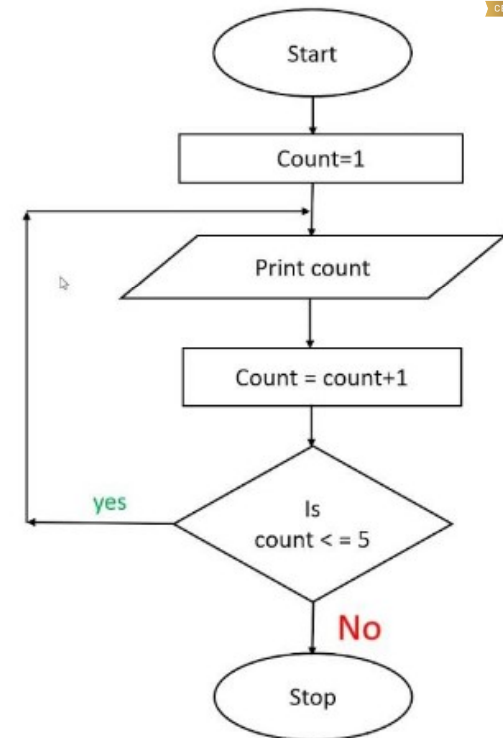
**Prof. Sindhu R Pai**

PCPS Theory Anchor - 2024

Department of Computer Science and Engineering

### Program Execution Flow

- Code is executed **line by line from top to bottom**
- Each statement **executed in sequence unless otherwise specified**, like in the case of constructs like loops and functions



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## Basic Syntax and Formatting

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- A **case-sensitive language**.  
input, INpuT are different
- **Rigid format**; not free-form.
- **Indentation is key**. Constructs like loops and conditional statements have indentation requirements that must be followed
- **The program must start from column 0 (the first column)**. You can't have a program start from an indented block.

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## Multi-line statements

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- Ideally there must be only One statement per line.
- One statement can span across multiple lines
  1. Use Escape character '\ ' to ignore the EOL
  2. Use ( ) constructs
  3. Begin and end markers must be the same
- Multiple statements in one line separated by a ' ; '

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## Comments

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- Single line comments begin with a # symbol
- The documentation string is used for commenting multiple lines which is written using a pair of triple " " " " " " quotes or ' ' ' ' ' '



## THANK YOU

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Department of Computer Science and Engineering

Dr. Shyalaja S S, Director, CCBD & CDSAML, PESU

Prof. Sindhu R Pai – [sindhurpai@pes.edu](mailto:sindhurpai@pes.edu)

Prof. Chitra G M

**Ack:** Teaching Assistant – Advait Sanil Kumar