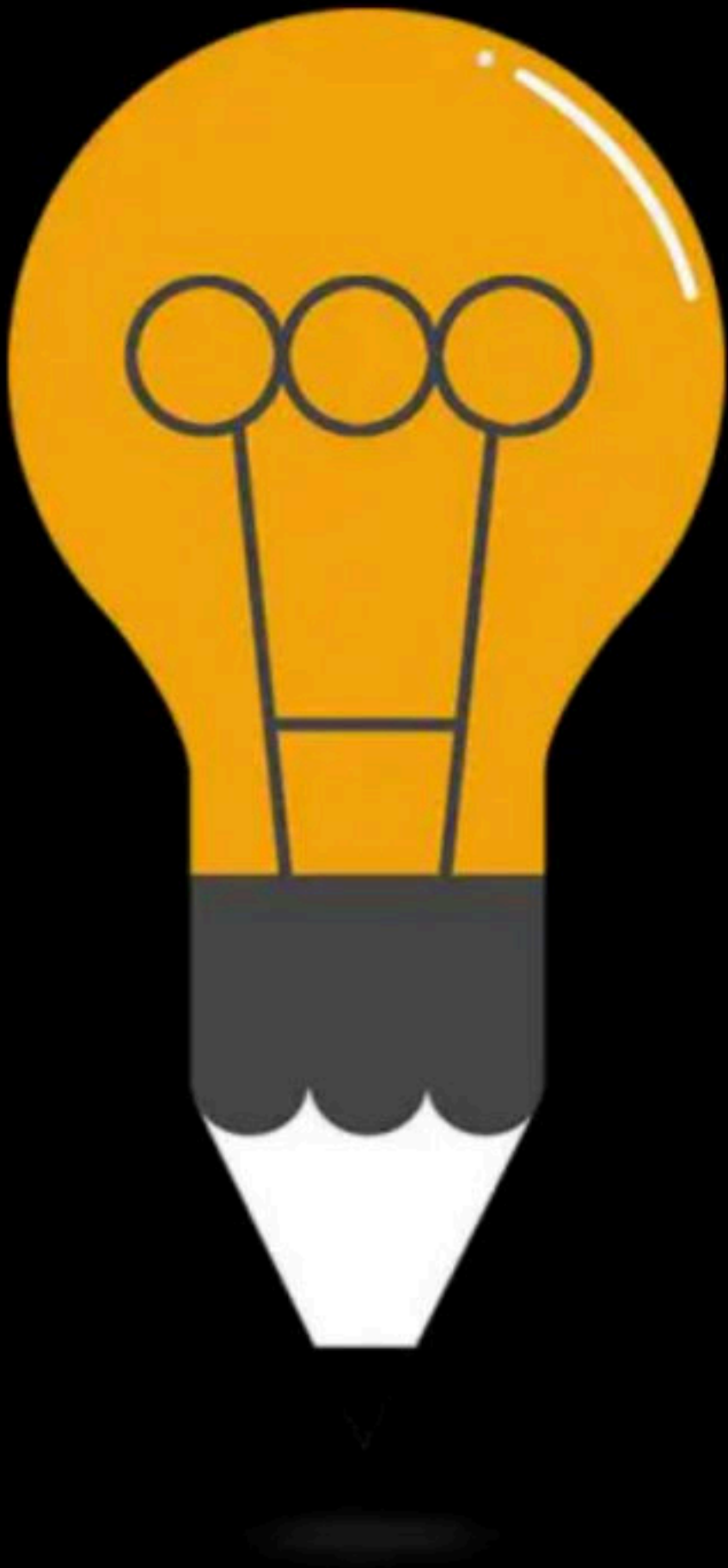




Basics of C-Programming Language

Course on C-Programming & Data Structures: GATE - 2024 & 2025



Basics of C-Programming

By: Vishvadeep Gothi

→ lecture ⇒ notes

→ Before next lecture ⇒ Revise notes

→ Every weekend ⇒ Revision

→ Quiz ⇒

Course finish ⇒ Complete course revision

dpp ⇒ every 4th class
only dpp discussion
&
doubts

chapter finish ⇒ { Prev.
year
Questⁿ }

Special class

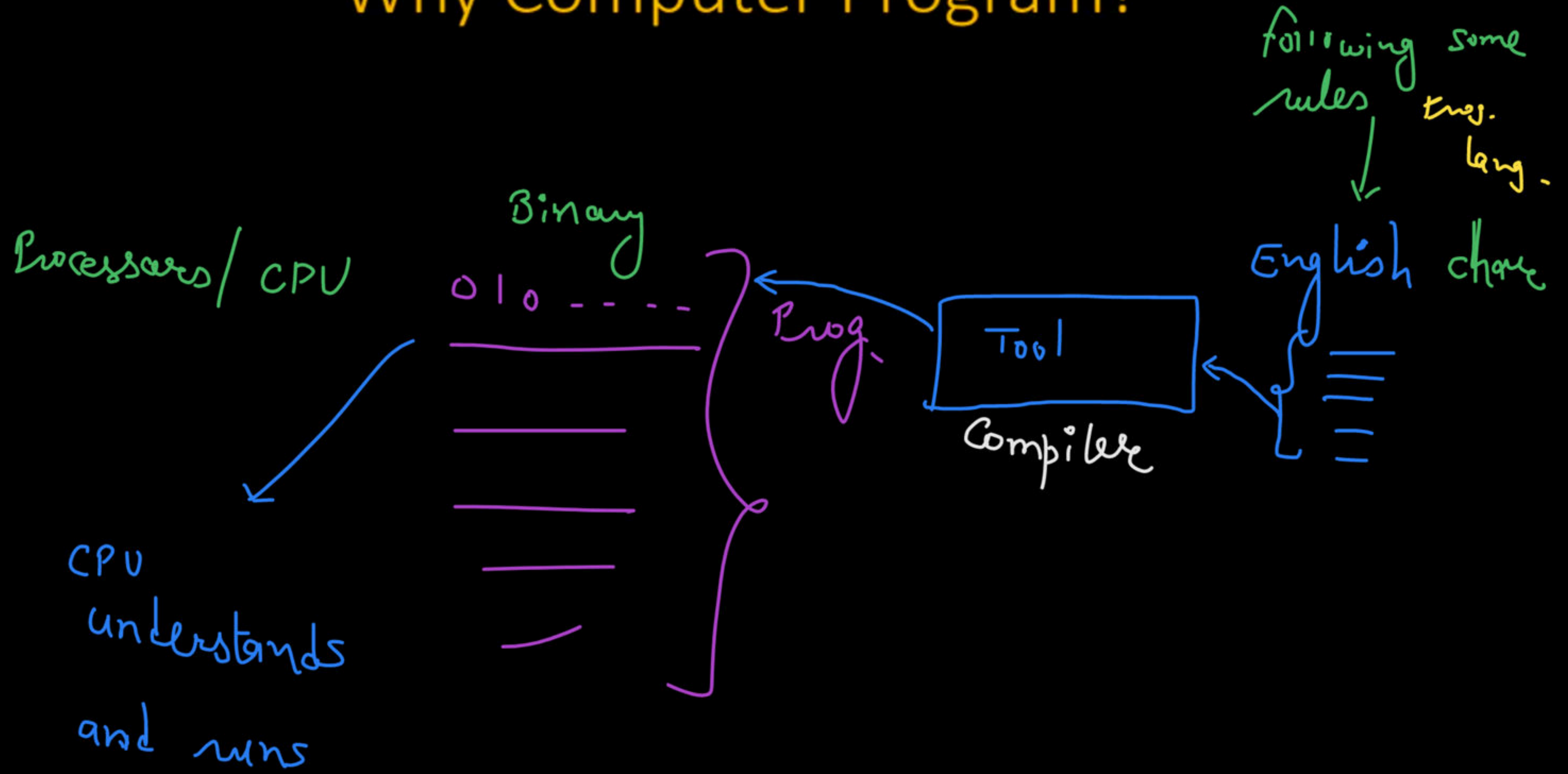
Why C-Language & Data Structure

1. Fundamental Skill for CS/IT Engineers
2. Foundation of the IT jobs
3. Logics & Concepts building

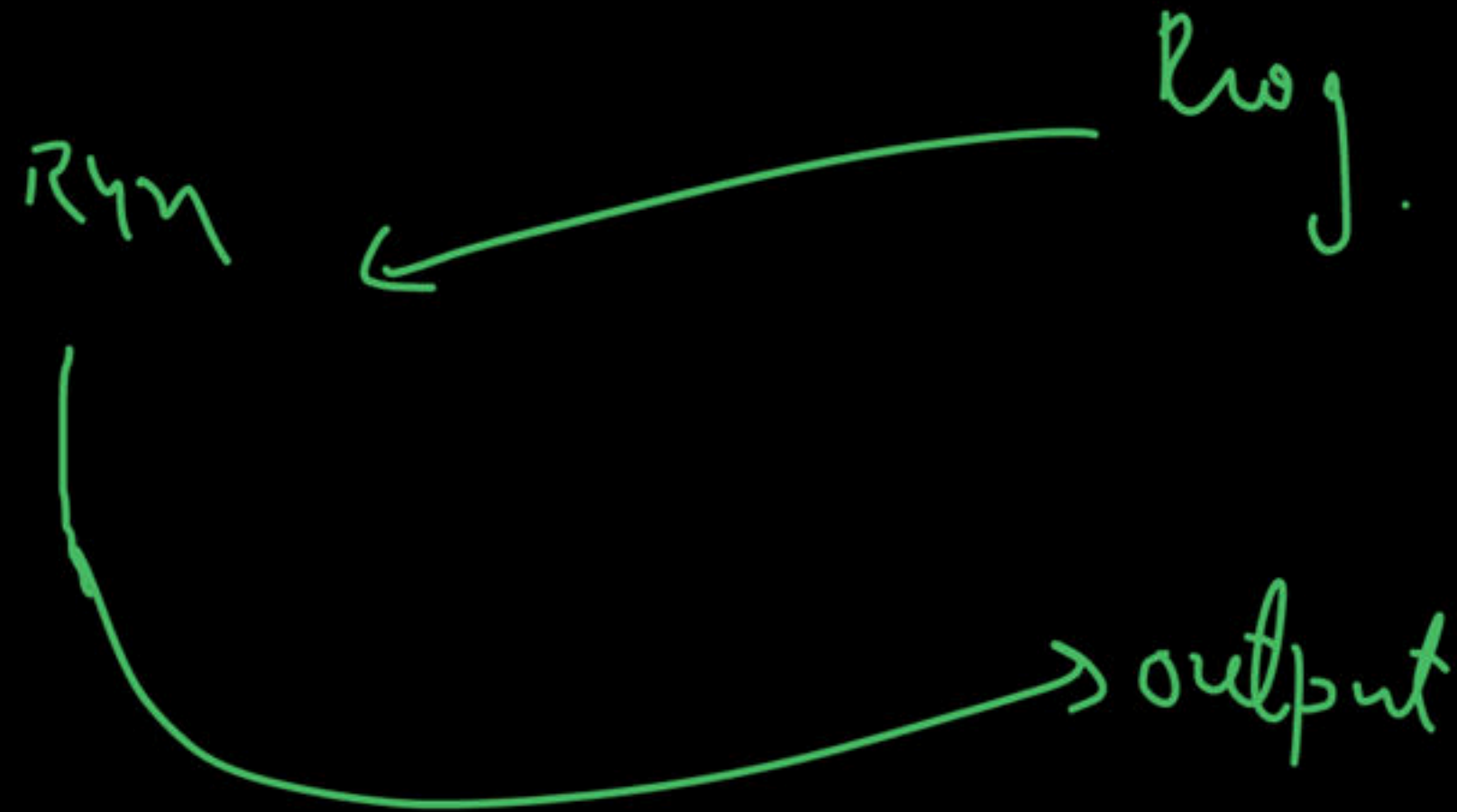
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Why Computer Program?



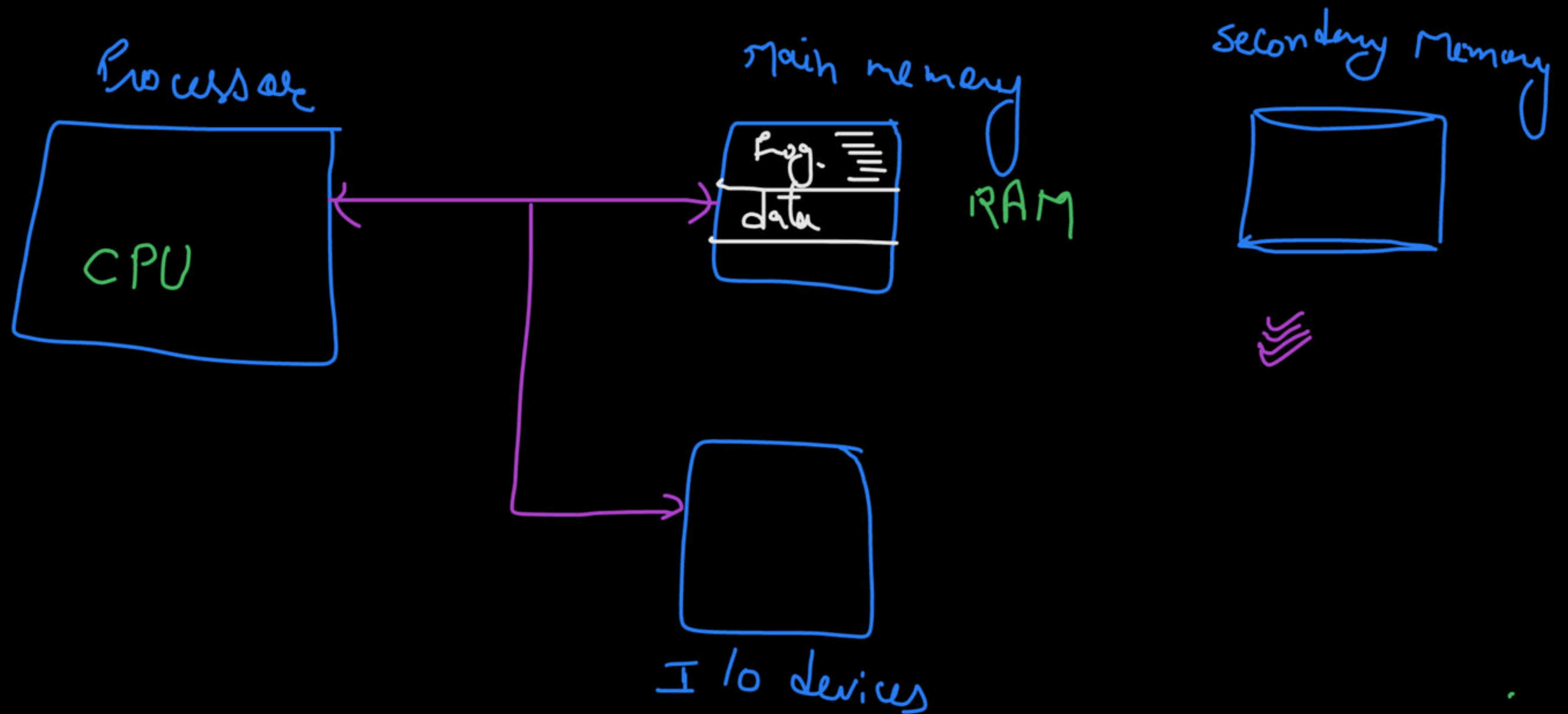
Why Programming Language?



Why Different Programming Languages?

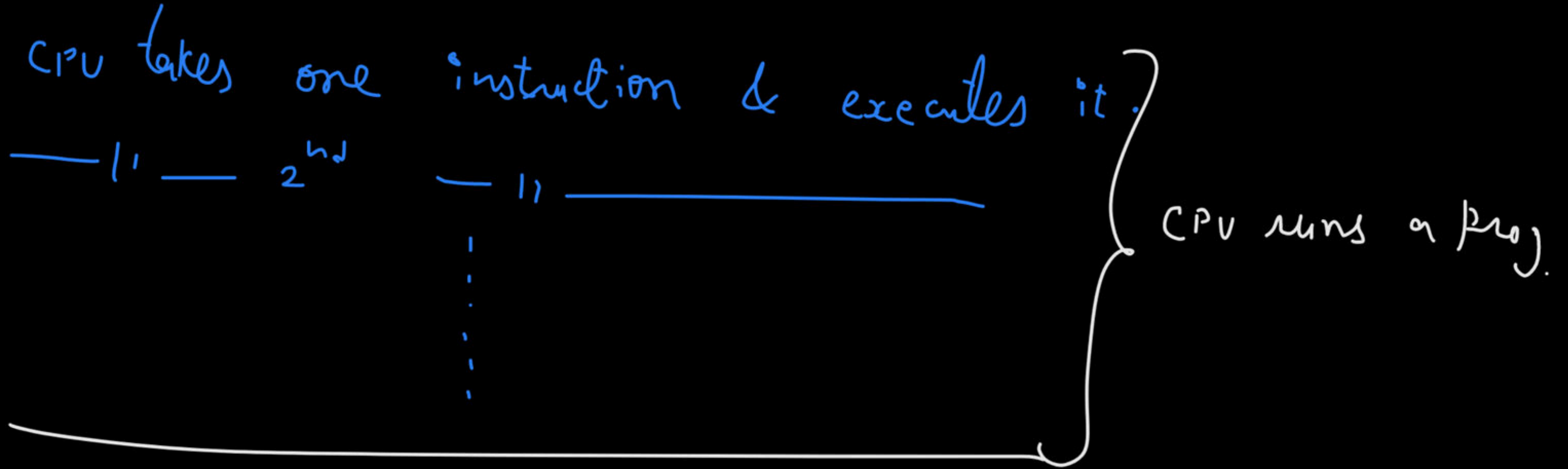
→ Every lang. brings something different speciality

Components of Computer

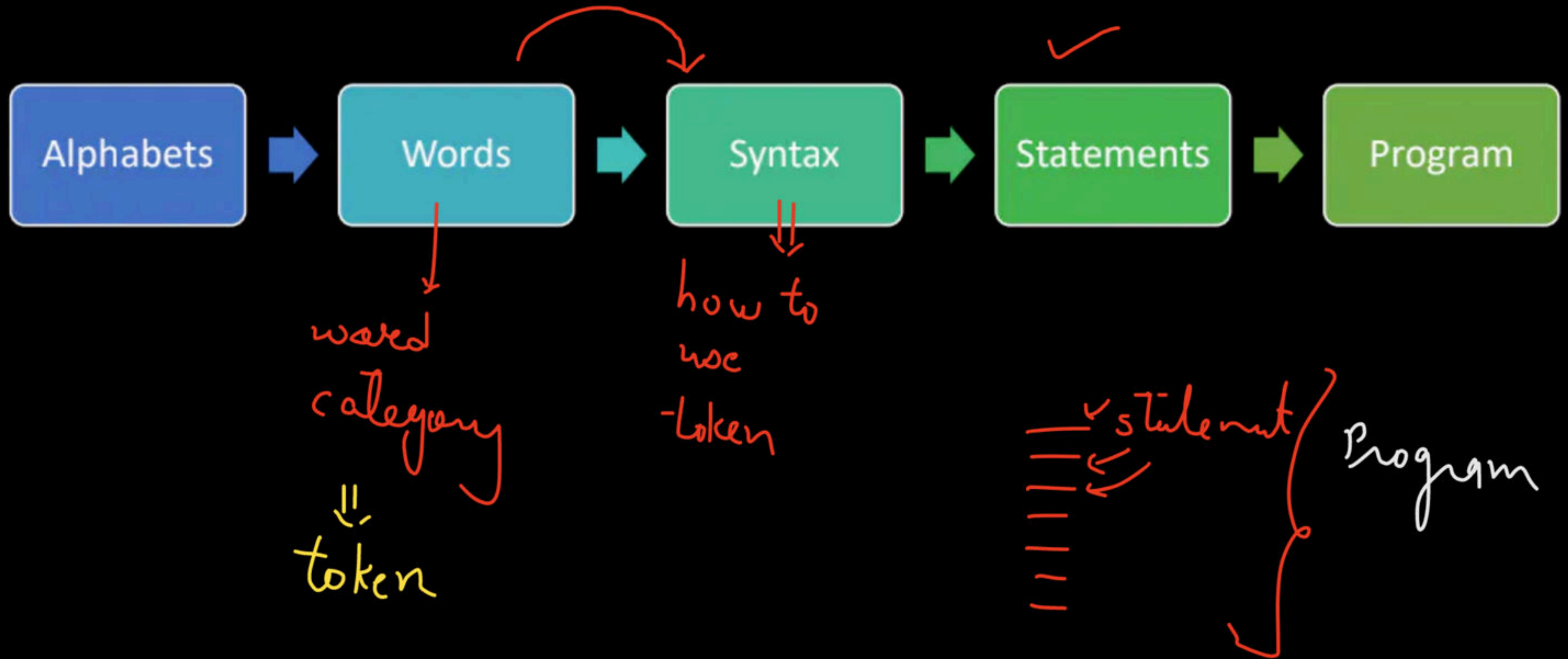


How a Program Runs

Program (set of instruction) + data are in main memory



Program Constructs



C-program lang.

Alphabets

case-sensitive lang.



upper case, } different
lower case

A to Z

a to z

0 to 9

Special characters:-

. ~ ! @ # \$ % ^ & * () - _ + =

parenthesis

{ }
curly
braces

[]
square
bracket

|
pipe

\

/

?

<

>

.

,

'

"

:

;

colon

semicolon

C-tokens

category of a word

C-tokens

1. Keywords
2. Identifiers
3. Operators

Keywords

Dictionary words of programming language.

⇒ Basic building block of programming language

⇒ keywords in C-language are in lower case.

Keywords

auto	double	int	struct
break	else	long	switch
case	enum	register	typedef
char	extern	return	union
continue	for	signed	void
do	if	static	while
default	goto	sizeof	volatile
const	float	short	unsigned

Happy Learning.!

