

CS & IT ENGINEERING

C-Programming

Fundamentals

C-Programming Fundamentals

Lecture No.- 05



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Recap of Previous Lecture



Technical Subject -

- Variables :- age, marks, Percentage, Weightage

- Constant :- $\pi = \frac{22}{7}$, Euler's Number, GATE_Total_Marks
GA-Weightage

- Expressions

- Computational Stmt
- I/O Stmt
- Declaration Stmt
- Initialization
- Assignment

Translators

- Assembler - Assembly lang
→ M/C
- Compiler - HLL → M/C
- All Code at a time
- Interpreter - HLL → M/C
→ Line by Line



Topics to be Covered



'C' Language features/characteristics





Topic : Features, Characteristics



① C Language is Middle-Level Language

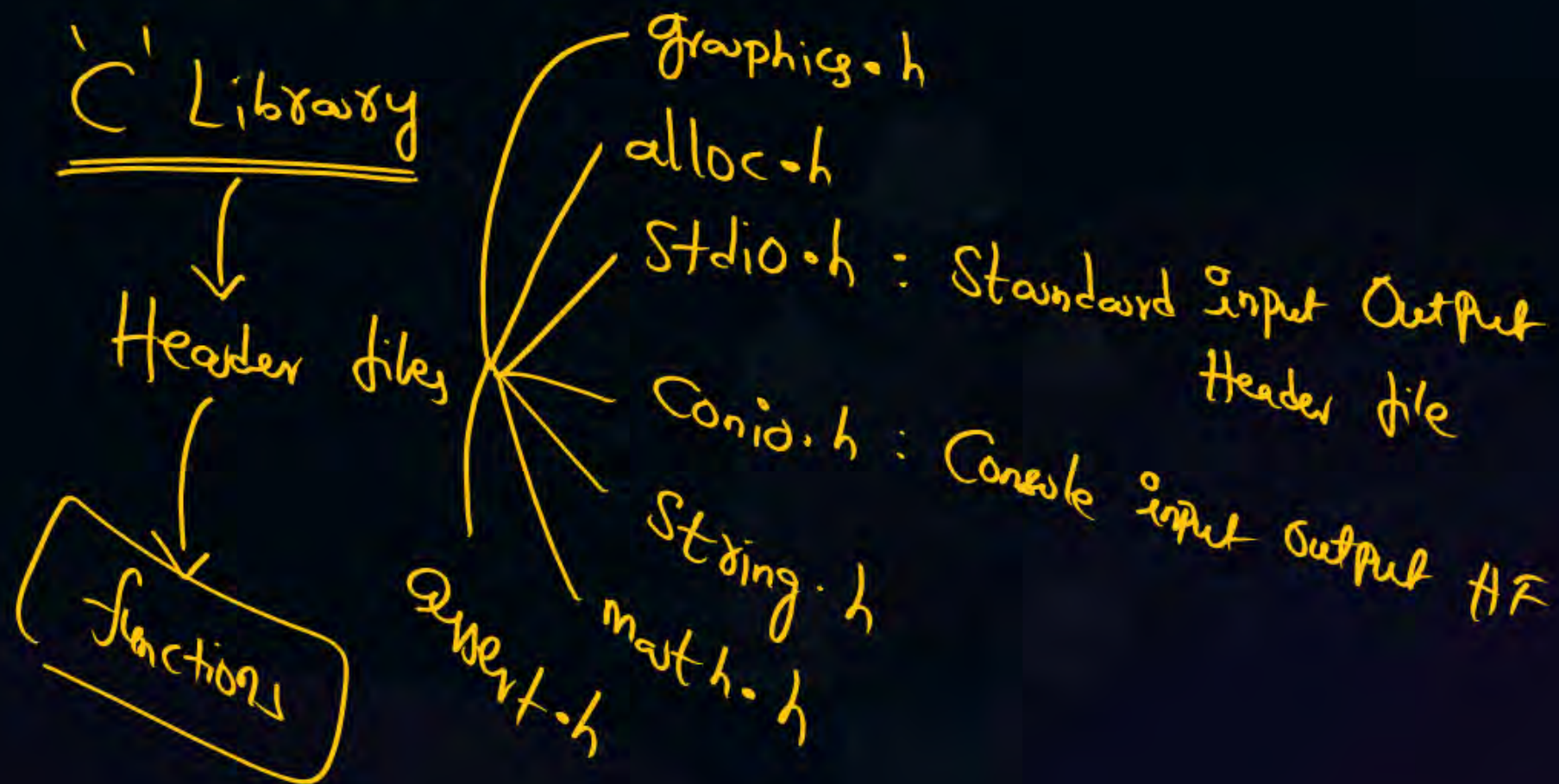
C Language can be used to develop both System s/w & Application s/w.

Software {
→ System s/w : which favour Computer functionality (CPU)
Ex: Operating System, Loader, Debugger, Translator
→ Application s/w : which favour User Purpose
Ex: Calculator, Video player, Games, Browser, MS-office, Image viewer - - -



(2) C is Robust = Powerful, Strong

- C has Rich built-in functions





③ C is Portable

↳ It fits Every (most of) kind of Environment (Configuration)

C Works
in All

- Super Computer : High Advanced Configuration
- Mainframe Computer
- Mini Computer
- Midi Computer
- Micro Computer : Limited Configuration

[ZB Memory (HDD)
TB RAM
Processor Config]



Topic : Features, Characteristics



④ 'C' is Case-Sensitive

- 'C' Compiler treats upper case & lower case as different

Ex: GATE \neq gate \neq Gate \neq gAtE



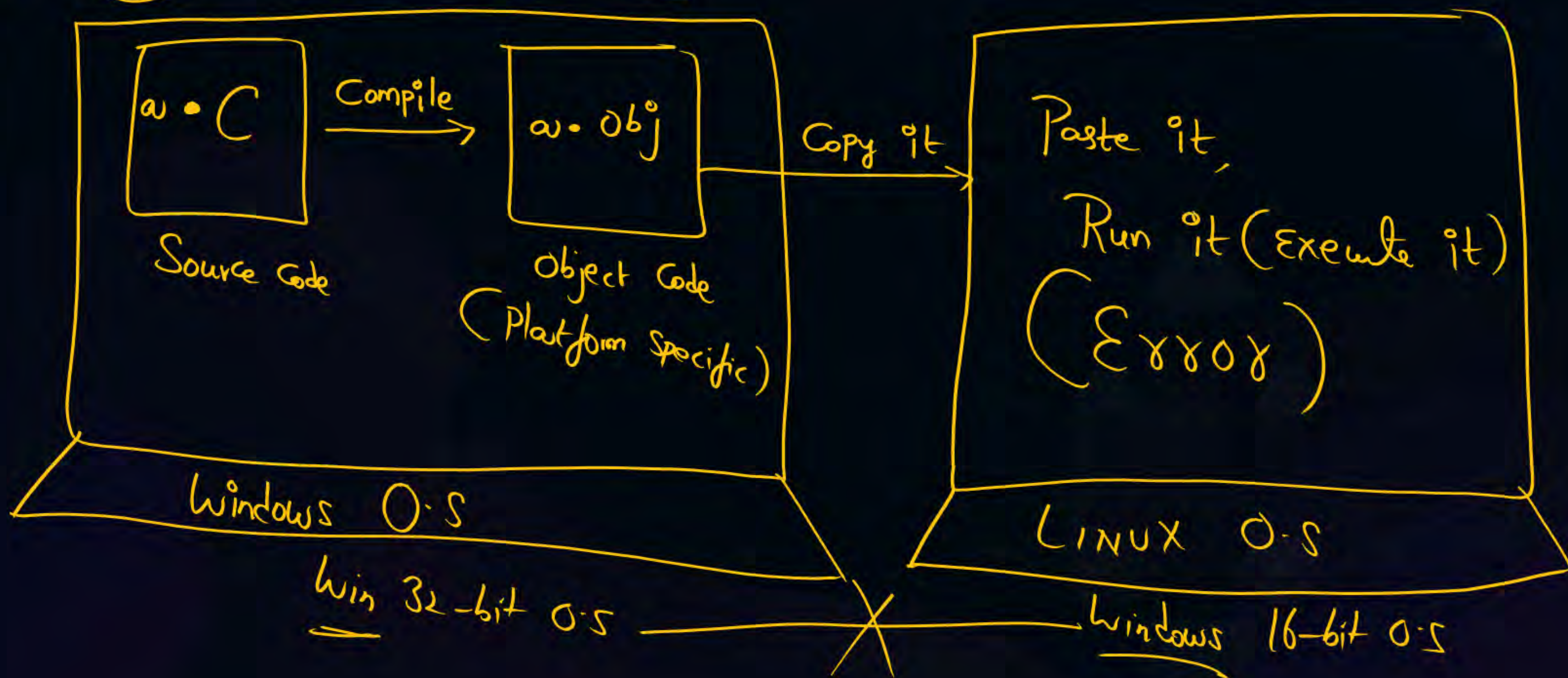
Topic : Features, Characteristics



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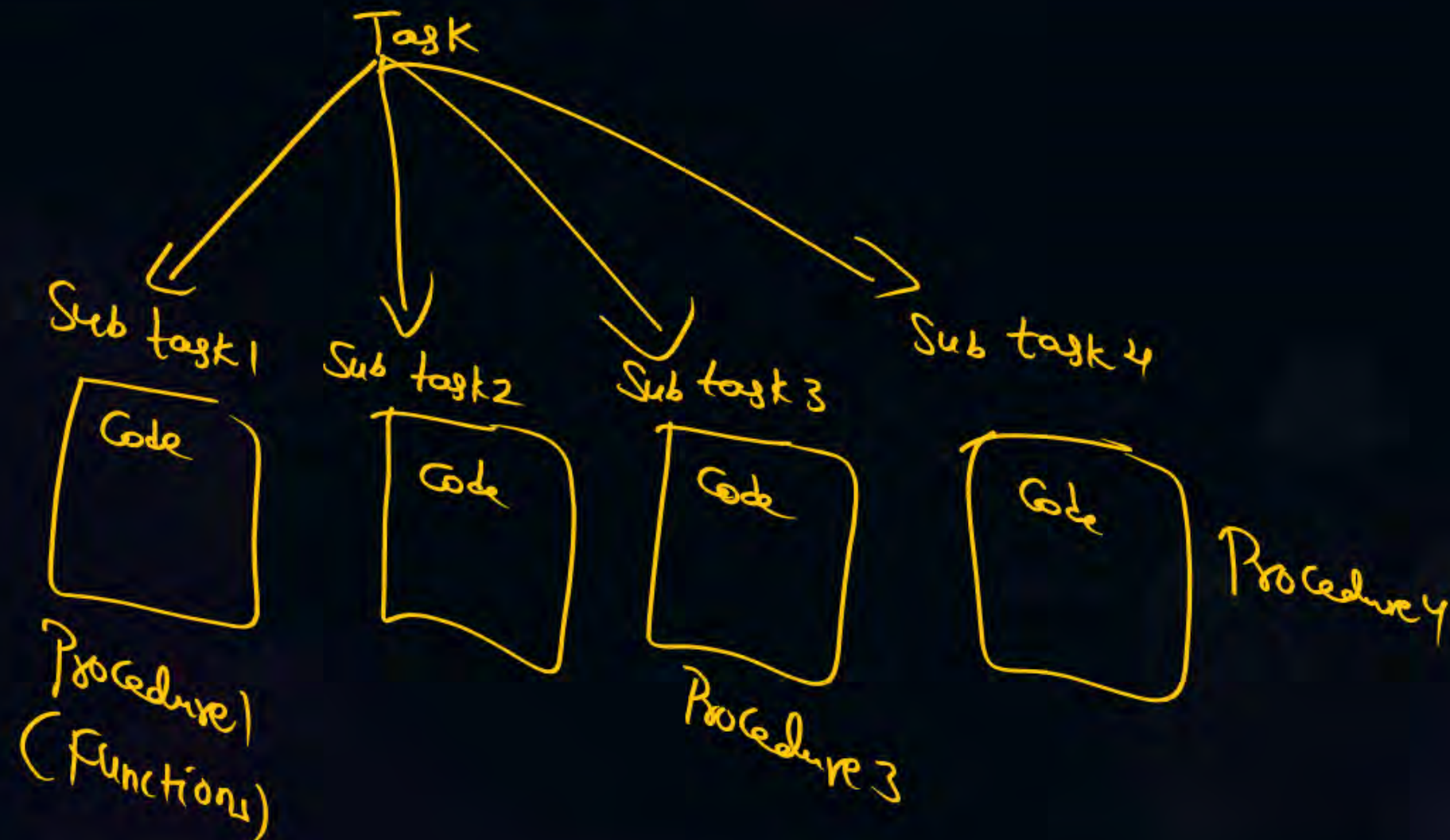
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(5) C is Platform-Dependent





⑥ 'C' is Procedure-oriented





⑦ 'C' is Structured Programming Language

Every 'C' Program will follow standard structure

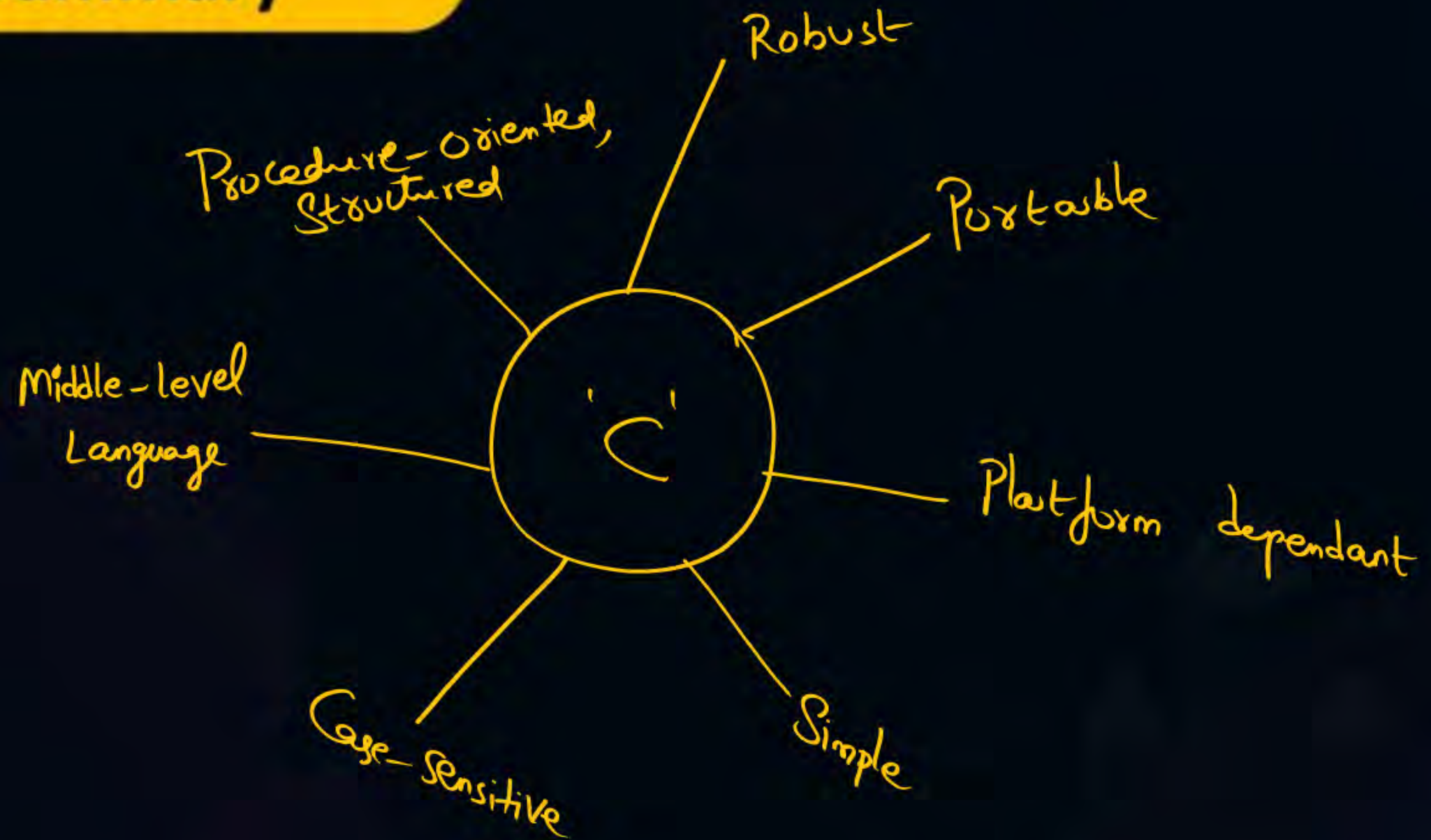
⑧ 'C' is Simple,
English like language



Proper Sequence
for sections of Code



2 mins Summary





THANK - YOU