CS & IT ENGINERING

'C' Programming

Pre Processor Directives



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Recap of Previous Lecture











- Structures & Unions

- Assign values to Variables
- Structure Vs Union
- Seif-Referential Stoucture
- Limitations of structure / union

Topics to be Covered











- What it is?
- Types
- File inclusion directives
- Macro directives







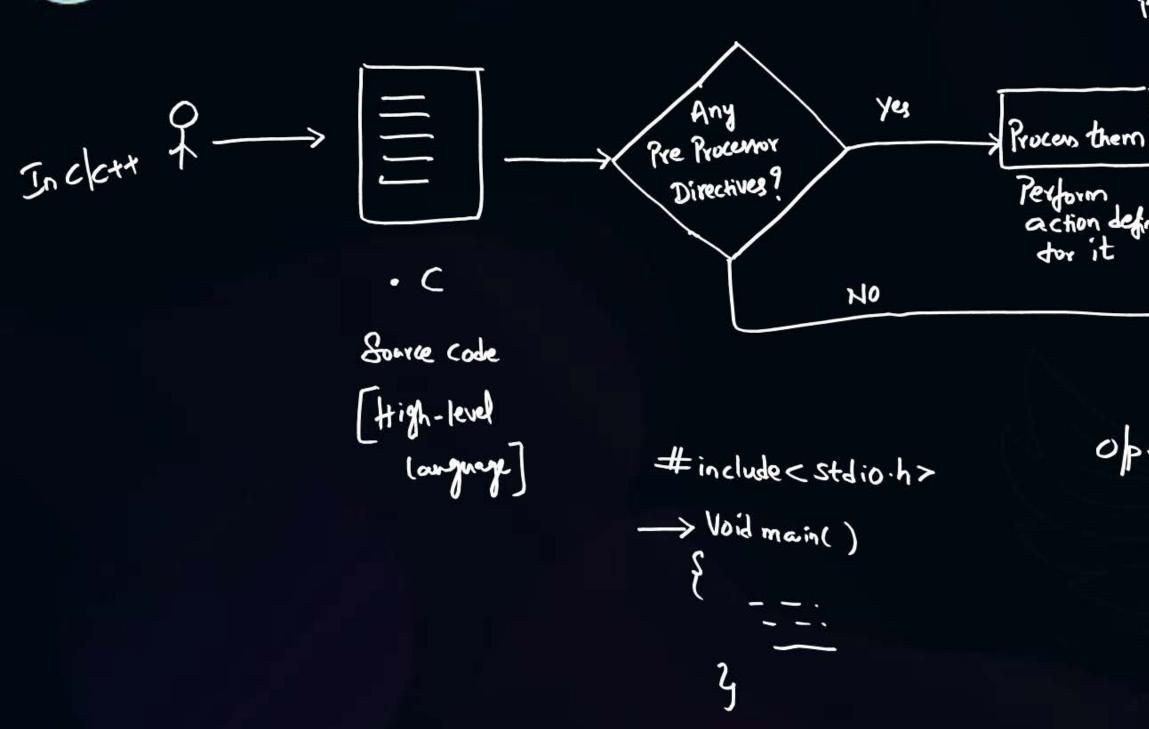
.obj

code

object



Compile







Types of Pre-Processor Directives

- (1) File Inclusion
- 2) Macro Expansion/Macro Substitution
- (3) Conditional Compilation
- (4) Miscelleneous
- All Pre Processor Directives Start with # Symbol.





File Inclusion Directive

- To include Header Files in our Program for Compilation.

format specifiem

- Header Files Contain, Pre-defined functions Rototypes, Definitions, Pre-defined Constants, Escape Sequences

Ex: Printf(), scarf(), sizeof(), malloc(), calloc(), NULL, In, It, b, 1/d, 1/d, 1/s---

- Types of Header Files
 - 1) Pre-defined Header Files
 - 2) User-defined Header Files





To include

Pre-defined Header File:

Ex: # include < stdio.h>

include < Conio. h>

include < graphics.h>

include < Stalib.h> -- -

-> User directory

(Iser-defined Header File: 1) Open Programs define Functions, Save it-

with h Extension.

2) User directory: # include "Header File"

C' library : # include < Header File>





```
Macro Substitution
# define
        function as macro
Define
        object as macro.
Define
               X 3+5 // True substitution
     # define
        void main()
     { int y;
                        // 3+5 * 3+5
         y= x * X;
                        11 513=15
        Printf ("/d", y); // 3+15+5
                         / = 23
```

To be Contd ...



2 mins Summary



- Pre Procentor Directives
 - Definition
 - Types
 - File indusion



THANK - YOU