CS & IT ENGINERING

'C' Programming

File Handling



ONE SHOT

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Recap of Previous Lecture









- File inclusion
- Macro Substitution as a Variable

Topics to be Covered











- Macro Substitution as function
- Conditional Compilation Directives
- File Handling



Topic: Pre Processor Directives



```
Punction
                         じおら
# define X(2, j)
 Void main ( )
    int a=5, b=6;
   Printf (" / d", x (a, b));
0 P: 30
            11 Macro is Processed only
             first time (one time)
           11 Less Execution time
```

```
void x (int i, int j)
   Void main (
     int a=1, b=6;
    Printf (" /d", x(a,b));
                11 on Every Execution, X() is called,
0/P: 30
                    1, I variable, are created.
                 11 More Execution time
```



Topic: Pre Processor Directives



Conditional Compilation Directives

If block statements will be compiled always

Perespective of Condition regult.

11 Statements of if will be Compiled only when Expression is TRUE.



Topic: Pre Processor Directives



```
Examples:
 #define X 5/1 X=5
  #if X > 1 Touc
    #under x //x is under
  # define x 10 1/x=10
   #ifdef x // True
    # Under X // x is undefined
  # Honder x / Touce
     #define x 20 /1x=20
  # undef x // x is lendefined
  # ifdef X 11 FALSE
   #define X 30 Mot Campiled
```

```
#else
   #define x so // x=50
 #end if
       ABC()
      Print (" 1.1", x); // x=50
> boid main (
     AB( ( );
```



- 11 Normal Program, when Executed, results are displayed, Street in RAM, Deleted on System tamoff.

B*A

- so, Past Execution generated regults, if to be Stored Permanently, Files are Useful.
- Let if array of 200 numbers, need to be given Commonly for 5 Programs.

- Matrix addition A+B
- Marmo multiplication A*B
 - Transpose A & B
 - Inverse of A, B

Common input Though need to feed bepeakedly.

Inskead If input Stored in Filey All Can account.





Steps for File Handling

1) Create a File Pointer

- close file.
- fgetc() fputchar() fgetn() fputur)









```
Close File: fclose (Pointer Name);
Ex: fclose (fp);
```

- fseek (): To take Control to required Position/index
- ftell (): Current Position of the Control
- Newind (): To move file control back to starting of file.
- Eof(): End of file



2 mins Summary



- Conditional Compilation
- File Handling

- Stay Tuned for PYQ Practice Sessions.



THANK - YOU