Q Tuesda X Compiler Design X 2017
8 Tuesday AUGUST
SCHEDULES Week-38
8.00 Translator - It is a software that
converts high level language to low
10.00
Enternal Architecture of Translaton
X(m)x x(m)x
1200 Preprocessor Compiler Assembler
Linker 1
Loader
Interpretor compiler
4.00 1) compile one 1) compile whole
soo time at a program at a time
11) Takes more 11) faster than
100 interpretor
111) eg python, mi) eg. c. ctt.
AUG - 2017 S M T W T F S S M T W T F S NOTES
1 2 3 4 5
6 7 8 9 10 11 12 3 4 5 6 7 8 9 13 14 15 16 16 17 18 19 10 11 12 13 14 15 16
20 21 22 23 24 25 26 17 18 19 20 21 22 23 27 28 29 30 31 24 25 26 27 28 29 30

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-	1	J																

AUGUST 1> Lexical Analyser it tinds out lexens (Variable, SCHEDULES 8.00 teywords), totens it makes table output. 9.00 dg: position := initial + rate \* 60; 10.00 11.00 lexems Token position Identifier (Id1) 12.00 = operator initial Identifier (id2) 1.00 4 operator rote identifier (id3) 2.00 X operator 60 (id4) identifier 3.00

	syntax Analyzer -
5.00	S -> id = E; (Statement)
6.00	E > E+T/T (Term)
	T > T X F / F (Factor)
7.00	E - id
8.00	E (Expression)

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S	M	T	W	T	F	S	S	M	T	W	Т	F	S	
		1	2	3	4	5						1	2	
6	7	8	9	10	11	12	3	4	5	6	7	8	9	
13	14	15	16	17	18	19	10	11	12	13	14	15	16	
20	21	22	23	24	25	26	17	18	19	20	21	22	23	
27	28	29	30	31			24	25	26	27	28	29	30	

NOTES

## Saturday AUGUST 3) Semantic Analyzer - Wookise # 15 responsible for type checking 8.00 array bound coppeity, mismatch error, undeclared variable, reserved orwords 9.00 misure of reserved words, mismatch bet actual and formal parameters. 10.00 11.00 4) Entermediate code generator-12.00 It was The (Three Address Code) formula. To generate addresses 1.00 id, = id2 + id3 x id4 like -2.00 1. tempo z ida 2. tempi = id3 x tempo 3.00 3) temp2: id2 + tempt 4.00 4. temp3 = temp2 5.00 Code optimization -6.00 temp1 = id2 x 60 7.00 temp2 = id, + temp1 8.00 (id3) AUG - 2017 SEP - 2017 NOTES SMTWTFS SMTWTFS 4 5 6 7 8 9 14 15 16 17 18 19 10 11 12 13 14 15 16 21 22 23 24 25 26 17 18 19 20 21 22 23 27 28 29 30 31 24 25 26 27 28 29 30

24 25 26 27 28

27 28 29 30 31

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AUGUST	Sunday ] Z
 Week-32	
SCHEDULES	
8.00	3) Target code generator -
9.00	Assembly code
	MOV R1, 60
10.00	MOV R2, id2
	MUL RI R2
11.00	Mov R3 id1
wal.	ADD R3 R1
12.00	Mov igs Rs
1-16-6	there are a state of the same and the same of the same
1.00	Single Pars & Multipar compiler
2.00	- 1 - David - 20 NV
9 214	ngle pais - compiler will pass throw
3.00	all phases only once
10	
4.00	dultipass - compiler will pass thro
	all phases multiple time and
5.00	protucing intermediate code
	every time
6.00	Multipair compiler and line
	Multipaus compiler generates machine dependent as well as machine independent code
7.00	acpendent as well as machine
	independent code
8.00	
NOTES	AUG - 2017 SEP - 2017
NOTES	SMTWTFSSMTWTFS
	1 2 3 4 5 1 9
	6 7 8 9 10 11 12 3 4 5 6 7 8
	13 14 15 16 17 18 19 10 11 12 13 14 15 20 21 22 23 24 25 26 17 18 19 20 21 29
	20 21 22 23 24 23 20 17 10 19 20 21 2

Monday

AUGUST

Week-3

```
SCHEDULES
800 * Choss compiler - when the compilation
     of source code is done on one
      system and then it is run on
      other system then it is called cross
      compiler
11.00
   * for the lexical analyses use the lex
   * For semantic analysis use directed
   * for intermediate code general automatic
      code generator
   x for code optimizes use data flour
    analysis engine me

k for target ude generat ^ compiler
3.00
4.00
      construct toolleit
    * For syntax analyzer use yet
5.00
       another compiler
6.00
7.00
8.00
     AUG - 2017
                SEP - 2017
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24 25 26 27 28 29 30

27 28 29 30 31

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## **AUGUST**

Tuesday 2<sup>nd</sup> chapter - Role of lexical Analyzer lexical Analyzer 10.00 token 11.00 Also it generates error message 12.00 \* Regular Expression - are used for representing certain sets of strings in an algebric form, so wh 2.00 Rule 1 - Any terminal symbol ine E, Z including empty (1) and null(0) 3.00 are regular expressions. 4 00 0, 0, b, c, a1, €, Z, dz 5.00 Rule 2 - union of two R.E is also a regular expression 6.00 7.00 Rule 3 - concatenato of two REIS also a RE 8.00 AUG - 2017 SEP - 2017 NOTES SMTWTFS SMTWTFS 1 2 3 4 5 7 8 9 10 11 12 10 11 12 13 14 15 16 14 15 16 17 18 19 17 18 19 20 21 22 23 21 22 23 24 25 26

## ( Wednesday

SCHEDULES

Rule 4 - the iterat or closure of a RE is also a RE

9.00

Rule 5 - RE over & are precisely
those obtain recursively 10.00

11.00

by the applicate of times

12.00

1.00

- 0+1+2 90,1,23

fr. asy - nab

<del>{0</del>,0,00,-} 0\*

€ 0,00,000,--4.00

5.00

S-> AaAb BBBa

7.00

8.00

AUG - 2017 SEP - 2017 SMTWT SMTWTFS 2 3 8 9 10 11 12 13 14 15 16 17 18 19 10 11 12 13 14 15 16 21 22 23 24 25 26 17 18 19 20 21 22 23 27 28 29 30 31 24 25 26 27 28 29 30

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