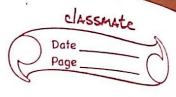
	Classmate  Date Page
	The same of the sa
	Aishwarya Kultarni
	PE241 DIV-E-10 MILLER
	Batch E2
	en into a - waterale positional + "+"
	Software system compiler-Theory
Q.I_	Enflain the phases of compiler with suitable example.
Al	Symbol Table
TT. L	of the second se
ligh. end ong.	lexical syntax Indermidiate (ode ode Machine)  analysis analyser Code general of Timizer General Code
	a roman
	error Handler.
	PHASES OF COMPILER.
۵)	levical Analyser: It is the first phase when comfiler scans the source code. This process be left to right by character & group these characters into tokens.
	THERE I AT RELIEF OF A DUNCT IN LINGUIST

	Tokens:
	in an artiful and the first of the second of
	X -> identifier 4-> identifier
	'-' - Assignment operator
	+' -> Addition operator
	10 → Number
1)	syntan Analysis - Atis all about dis covering
MAD D)	syntan Analysis - At is all abrustions structure in Code. At determines whetherer structure in Code. At determines whetherer
	not test follows an expected format. The main
	the same of the state of the same of the s
MK-m	by programmer is correct or not
20 120	y. (a+b) *C → Paretree J
	rg. Ch: 3)
	D GOYNS I
	addition 1
	THATES OF DIPPLEES,
	(a)   1
1:1-1-	EVER A REAL DELONGER SEE STORE LEVEL DELONGER DE
0)	Semantic analysis: cheeks the sematic
ludd. o	consistency of the code. It uses the syntax
5.00	tree of the previous phase along with
	0

	the symbol table to verify that the given source code
4 11 6 3	is semantically consistent. It also checks
4	whether the code is conveying an approximate
-	whether the code is conveying an approxiate meaning.
	eg. float x = 20.2;
	float y = x + 30;
	of the sale of the
	- In this the semantic analyser will type cast int 30
	to float 30 to froat 30.0 before multiplication.
	The second of th
d)	Intermidiate code generation: stisblus the high-
06	land & machine level language. This interminance
12 24	List of almovaled in such a mannior
	that makes it easy to translate it into the target
	M.C. LODALA J. TOHON MALJANNY MAL
	Go. Total = (punt + rate *5.
	An townside of address code with the help of address code
* AT 4	method is Tales of ad walled blinder.
	t1 = int to float (5)
	t) - 4070 x tl
	t3 = wunt + t2
	$total = \pm 3$ .
	C 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
- 11	

( e)	Code optimization: This phase removes
	unprecessary code & line of arranges the sequence
ota	of statement to speed up the execution of
	program w/n wasting resources.
	Eg a= into float (10)
	b = c * . a = = = = = = = = = = = = = = = = = =
	d = e+b
STNITA	rantuit = duu od amitin amus utriutub The
	-> can become : b = .C + 10.6
	1 = e+b.
- Anti-	HELLER THE PROPERTY OF THE PROPERTY AND THE ARCHITECT
	Code generation: It gets input from the code
	optimization phase of produces the page code or
times of	object code as a result. The objective of
L/	this phase is to allocate storage & generale
	relocatable machine code
S. Alexander	eg. 1 a =+ b +60.00 Toikim 3 a A
	· Would possibly be translated to registers:
	Move a, RI
	MULF #60.0, R2
AN 1	ADDF RI, R2.
	At a Intat
	The second of th
4° 1 ° 1	La Charles Transfer Application
	The second secon

	Suldat France & to the property of special as A &
0.2	Défine 4 give en amples: To kens, le remes, latterns:
0,1/3	Token: It is a sequence of characters that can be
174 P. (*)	- treated as a single logical entity typical
	(1) Identifier (2) Keybwords (3) operators (4) special
18	symbols (I) Constants.
	Pattern: A set of thrings in the input for which the
	A COLO TO
	Called as pattern associated with token.
-	Lexeme - A lexeme is a sequence of characters in
	the source program that is matched by the fattern for a token.
	CHAN ELGINA CANADA
	Examples - 1- + million ? [5-A5-D]
	Token Lexeme Pattern
	const. const.
	Helation <, <=, <7,=, > < or <= or = or < > or =>
	i pi anychar.blus"and"+
1145	ruuri 0
	literal "Lore" lattern



The same of the same	
AN.	what is the purpose of symbol table?  Symbol table is an important data ilsusture  created 4 maintain by compilers in order store  into about the occurance of various by  into about the occurance of various by
(4.)	entities such as von
101330	objects, interfaces, enc.
Q.4.	write a LEX program to count the number of nonelle constants in given string.
all phi	SINA BLANDAMENTE
1111	int vow-count =0;
*p > A	introdut (Quint = 0;
Diener	The state of the s
1 1 1 1 Ch	
	°/0°/0
	[aeiou AEIOU] { vous-count ++;}
	[ a-zA-z] { const-count ++;}
	0/0 0/0
	int yywrap () Es
	int main ()
	1
2756 276	printf ("Enter the string of namely 4
1014 11	consonants:")
. 44	yylex ();
	mercal "one" Pattern.



	A -	
	print ("No. of voucell are: y.d/n", non print ("No. of consonents are: y.d/	b_count);
	princt c 100. of consonents are: 1.d	n", const - count);
	return o;	- (OUN)
	3	
	Output:	Hello world
	enter the string of namely 4 consonents:	
	No. of consonents: +.	
)		
	9	
_		