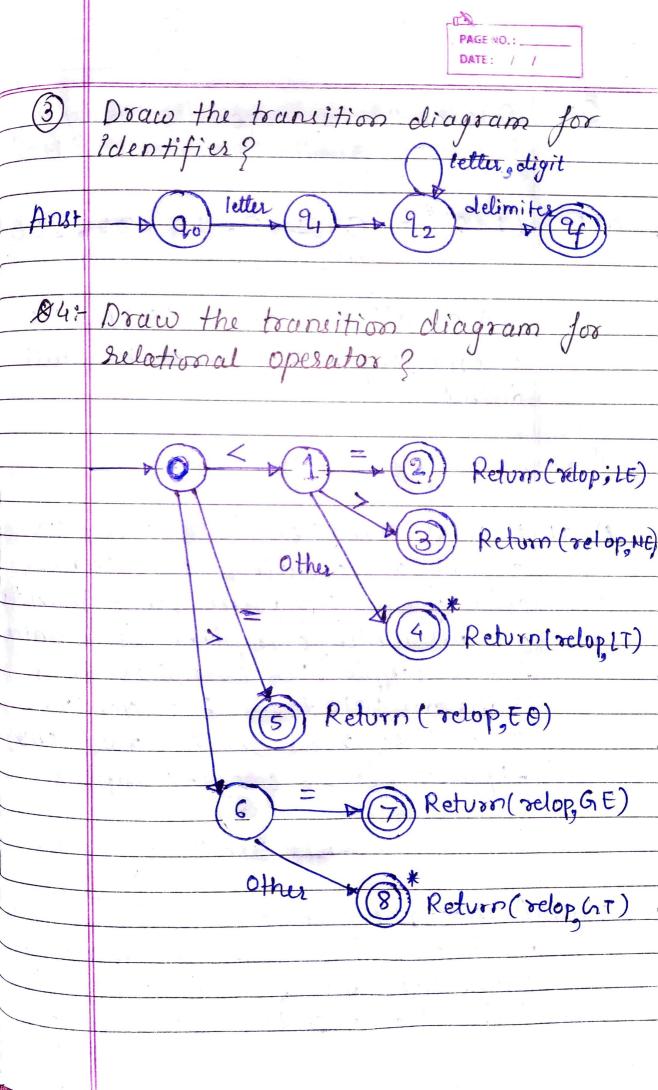
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٩	Assignment-1
٥	Short Overtions+
(ì)	Differentiate between dynamic loader cend linker?
	linkes loades
(i)	
	The main function of (i) whereas main Linker is to generale objective of loader executable files es to execute files
(ii)	Use of linker és to (ii) 4t helpe in
	combine all object allocating the address to executable cody
2	Assembles What is Assembles?
Ansi	An assembles is a program which translates assembly language program into muchine code of
	The Alterial
	of an assembles is called object file which contains a combinations of
	machine instructions as well as the data required to place these instructions in memory
	memory.



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05%	Describe the language denoted by the following regular expression (1+0)*
	following regular expression (1+0)*
Any=	(1+0)*={C, 1,0,10,00000,100,
	11,000,01, 3
	Set of all strings of 1s and 0's
	of any length including the nucl String Ans
06%	What is cross-compiles?
Anst	A cross compiles in a
	capable of creating executable
	capable of creating executable code for a platform other than the 09: one on which the compiler le moning for example; a compiler than son windows but accepted
	for example, a compiler than
	code that was no Andmid am
	iproduction (i)
077	Discuss the telt tell tellity of mains ?
Anst	A main which charles
	nmazammahle a programming (ii)
,	-instruction") is a program ming program mable pattern which translates a certain sequence of
	1 chie of

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input into a preset sequence of ofp.

Macros can make tasks less the

Repetitive by representing a compli

- cated sequence of keystrokes.

Ans: A regular expression is a search

pattern used for matching one or more characters within a string. At can matches specific characters, and ranges of characters:

09: Differentiale between compiler and interpretes ?

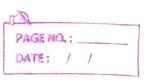
Ansi Compiler Anterpretes

Compiler scans the i) Anterpreter translates
Whole program in program one state
one go. — ment at a time.

(ii) It converts the the (ii) It doesn't convert instructions into the instructions

Systematic code instead it directly

Works on Source language



Olot Discuss the mesits and demesits of single pass compiles and multi-pass compiles?

Ansi A single pass compiler is a compiler that transfers through the reference code of each compilation unit for only once. A multi-pass compiler els a type of compiler that prepare the reference code of general syntax tree of performance numerous times.

Single pass Compilert

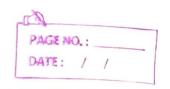
Advantages + More effective than multipass compilers in the compilers point of view

Disadvantagest 4t compiles lees—
efficient programs.

· Multi-pass Compiles +

Advantagest It can be played very role useful & when optimizing code.

Disadvantages + It le a very slower process which takes a lot of time to compile the cocle OIIT Describe various compiler woiting tools ? Anst The Various compiler writing tools aret Which are aid in the construct -ion of compilers + (i) Parses Generator: egt yacc (ii) Code generator generator (111) Scannes generators - the s/p of to lex consists of a definition of each token as a regular (i) Passes Generator + At is an application which generalis a parser sometimes also called a 'compiler Compiles'. (ii) Code Generator Generatoria 4t és a process by which a compiles's code generator converts Some inter-mediate representation of source code



into a form (for eg. machine code) that can be readily executed by muchine

(iii) Sconner Generators

At generates lexical analyzers from the input that tooteir consists of regular expression description based on tokens of a language.

Oldt Explain the term boots traping with example?

Anst Bootsbaping is a process in which Simple language is used to branslate more complicated program which in turn may handle for more Complicated program.

This complicated program can further handle even more complicated program and so on

Exampler

We can create compiles of many different forms. Now we will generate

	X = New langrage					
×	Y = Implemented lunguage PAGENO .:					
	Y = Implemented language DATE: //					
	XZXZ					
	IYIY MIMI					
	A A M A					
	These two these two languages					
	1 market English (1					
	be same					
Str						
5,0	At first me noite a compiler for a					
7	Small of c in assembly language					
	CO ASM -> Compiler 1					
	ASM					
Sho						
519	p2+ Then veing with small subset of					
	Cire, Eo, for the source language					
	C, the compiler is written					
1 10	C ASM -> Compiler 2					
	col					
Step	Compiles ve get compile the Second Compiles ving compiler 1 &2 is					
	Compiles. Ding compiler 1 22 ic					
	Compiled					
	Complied					
	1 Co Acres C					
	CO ASM C ASM ASM ASM CO ASMCO CO					
	NAME OF THE PROPERTY OF THE PR					
	ASM					
	Compiler <sup>2</sup>					
	(amailes L					
	Compiler					

D13+ What is the note of lexical analyses? Enumerate the issues handled by lexical analyzes?

Anst As the first phase of a compiler. The main tesk of the lexical analyzes is to read the input characters of the source program, group them into lexemus, and produces as output a sequence of tokens for each lexemus in the source program.

The issues handled by lexical and
-yeer is that;
Simples design is the most impor
-tant Consi desation. The seperation
of lexical analysis from syntax
analysis often allows as to simplify
one or more these phase

(ii) Compiler efficiency és improred

(iii) Compiles portability is enhanced

The same of the sa			
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014 Differentiate between linker and loader?

loader Anst Linker (i) The main function (i) The main objective of linker is to gener of loader is to execute files to the main memory (ii) Use of linker is to (ii) 4t helps in Combine all object collocating the add module — ress to executable Codes i files