Assignment no. 11

33213

classmate

Ittle: calculator using lex and yacc.

Problem Statement! write a program to implem calculator using LEX and YAGE.

Objective: To understand the process of lexico analysis and passing, through tools. like lexit 4 Mac.

Theon:

Lexical analysus. The action of sconning source program into proper syntactic clarre is known as lexical analysis. Scanner / lexical analyses sconsthe program and converts of into banc elements in taken of the language.

The goals of parsing are to check the validity of a source of strict to determine its syntactic structure for a cornect input, the parser builds a parse tree to reflect the sequence of derivation or reduction performed, the parse tree is paved to next phase of compiler.

Bottom up parologin

A bottom up parser constructs q
parse free for a source string through a
sequence of reductions the source string
is valid it it can be reduced to s
it — the starting symbol it not, then

the error is indicated, and reported during the process of reduction. Top down parsing: The top down parriag according to the grammon a role to decive the morting sequence of derivations, stanting with distinguished symbol of G Ex: Several took have been built for constructing lexical analyses from special purpose notations based on regular expressions beveral algorithms exists for compiling regular expressions in pattorn matching algorithm, exit a tool widely wedi to specify lexical analyser for vociety of languages the tool, show how the specsimplification of partern ching regular expression can be combined with actions that 1A may be required to perform Irandation rules structure of It is such that it keep trying to recognize taken, antil jaction associated with one found causes a return yyval is a raciable whose definition appears in lext your output lext your and which is also annilable to parier.

