idaram)

SPCC Lab 03 AIM: Implementation of first and follow in compiler design THEORY: FIRS I and FOLLOW we two hunchions associated with grammax that helps us fill in the entries of an Metable 1913 It is a function that gives the set of terminale that begin the ornings derived from the production rue A symbolic is in FIRST (d) if and only it & > cB for some sequence B origrammaraymbole band idor on as I all A terminal symbol a is in FOLLOW (N) it and only it here is a derivation from the start symbols of the gramman such that S =) aN & B where a and p are a sequence of grammar symbols In other words a terminal c is in FOLLOW(N) if crap follow N at some point in a devivation parallel of all (a) took a parallel It can be used to prove The UCK) characteristic of gramman It can be used to promote in the construction of predictive pare ing tables It provides selection information for recursive descent parcers 24 me input strong is T -> *FT' | E Kere we find out mat That two productions T- *FT' and T-E after viewing his we found out mar tirst of 7 in both me production otalements is * and & First of me string is \$ + e3 FOR EDUCATIONAL USE

Answer:

Remove left recursion

: FIRST and FOLLOW of above production is:

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		FIRST SET	FOLLOW SET	
	$\epsilon \rightarrow \tau \epsilon$	§ (, id }	{\$, }}	
	E' → +TE' E	{+, & g	9 \$, 23	
	7 -> 7	₹ C, id 3	{+, \$)}	
	7 -> *FT' E	{ + , € }	{+\$)}	
	F → (€) id	{ (, id 3	٩ + + \$) }	
1				-

conclusion:

FIRST SET is a conceptured in syntam analysis specifically in The content of LL and LR parling algorithms. It is a set of terminal that can appear immediately after a given non-terminal in a grammar Follow set is a set of terminals that can appear immediately after a given non-terminal in a grammar I is used to construct predictive parling tables and is used to prove LLCK) characteristic of grammar.