Name: Md RaiLard Islam Bhuigar

Id; 20101239

Section: 4

Assignment! I

Course : CS E 420

Down to the O: N: I

S -> Aalb A -> Ael Sd IE

After Modification, L'improvent

A -> Ac | Aad | bd | E

Eliminating Left recontion.

5 -2 Aa 16

 $A \rightarrow Pq A, l \in A,$

A' -> cA' | Dad A' | E

(Y A- al BICBD B-> C/b c -> Alc D - Bald After modification, A - al BleBD B -> Clb c - , a 13 / CBD / C D -> Bald

Pulling values of Bring, A- a | BlcBD Ba Clb c -> a/c/b/cBDlc D -> 1. Calbald Elimitatity let recursion: A -n ~ [B [CBD B - C 1 P e - a c' 1 b c' 1 c c' 2 2 2 -D- ac'albc'alcc'albald 9/39=193 = 5 = 1 5 9 : 9 = 5

Am to the O: N: Z

(4)

5-9 b SS a a S | b SS a Sb | b Sb | q

Left factoring:

5 -> 155" la de la

s'' -> Saas | Sasblb | E

Left factoring s":

5 -> 6 5 5" | a d) "?

5" - Sas' | b | E dall '??

5' -> . a 5 1 5 6 1 2 1 2 - 13

(3)

s > asshslasasblabblb

Left factorirs:

S - a 5" 1 b

5" -> 55 b 5 | Sa 5 b | b b

Left fattoring 5"?

9-2 a 5" (b

5 1' - 5 5' 16b

s' - sbs lasby