Excercise-2

J.

© Given Gramman perform Left factority.

A → iRpb | iRpc t

R → r

identify common prefix i.e.iRp

A-iRPX X-blet R-r

Perform Left factoring for following
gramman

T-> CPr | cPbpq

Common Prefix eP

Create a non Technical y to hardle the choices x and bpg that follows cp.

Thus. Feft factored gramor.

T-> c Ry

Y-> r l b p q

P-> p

3. Perform Left factoring for below gramme

A → aAB | aA

B → bB | b

Common Prefin: aA

A new non terminal X is introduced to hendle choices & 2 t (enipty)
that follows at.

left factored grammar

A > aAX

X > BIt

B > bB|b

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Identify first & follow for each non terminal

 $S \rightarrow ABCDE$   $A \rightarrow alE$   $B \rightarrow blt$   $c \rightarrow C$   $D \rightarrow dlE$   $E \rightarrow elE$ 

Nonterminal First Follow

S abc 4

A a,t b,c

B b,t c

C c d,e,

P d,t e,f

E e,t \$

Identify the first & follow for each non Jermind for the following gran

E→ E+T/T T→ T\*F/F F→ (E)id

Nonterminel First Follow

C, id +, )

C, id ×, }

C, id \$

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