**Assigment CFGs**

**Left factoring or left recursion**

a = 5 a = “ali” (Syntax)

a = b = c = 4 = d

a = b.fn() bs isko thk krna h

this.a[5] += {1, 2, 3}

<assgn\_var> --> <TS> ID  <option> <assgn\_val>

<asgn\_val> --> <assgn\_op> <assgn\_op\_b>

<assgn\_op\_b> --> ID <asgn\_val> | <OE>

<assgn\_op> = | COMPASS

<TS> --> TS. | €

a = {1, 2 , 3} (Syntax)

arr1 = arr2 = {1,2,3}

this.a[5] = arr1

<assgn\_arr> --> <TS> ID <option> <assgn\_val>

<assgn\_val> = ID <assgn\_val> | = <value\_list>

<value\_list> --> { <values>}

<values> --> <value> <arr\_val> | <values> , <value>

<value> --> <OE> | <value\_list>

<arr\_val> --> , <OE> <arr\_val> | €

a = new Dog{} (Syntax)

<Assgn\_obj> --> <TS> ID <option> = new ID { <arguments>}

<arguments> --> <args\_list> | €

<args\_list> --> <OE> <list\_args> | ∈

<list\_args> --> , <OE> <list\_args> | ∈

a = {name: “muzzamil”, age: 21} (Syntax)

<assgn\_dict> --> <TS> ID <option> = { <values\_of\_dic> }

<values\_of\_dic> --> ID : <OE> <dict\_val> | €

<dict\_val> --> , ID : <OE> <dict\_val> | €

(Syntax)

day= "Monday"

<assgn\_enum> --> <TS> ID <option> = <OE>