**Declaration CFGs**

<const> → Str\_const | Char\_const |Number\_const |Bool\_Const | null (keyword)

**Dec\_var (String or DT 2no cover)**

< dec\_var> → DT ID <init\_var> <list\_var>

<dec\_var> 🡪 String ID <init\_var> <list\_var>

<list\_var> → , ID <init\_var> <list\_var> | €

<init\_var> → = ID <init\_var> | = <OE> | €

**dec\_obj**

<dec\_obj> → ID ID <init\_obj> <list\_obj> ;

<init\_obj> → = new ID ( <param-list> ) <list\_obj> | ∈

<list\_obj> → , ID <init\_obj> <list\_obj> | ∈

**dec\_arr**

<dec\_arr> 🡪 DT ID[ <OE> ] <init\_arr> <list\_arr>

<dec\_arr> 🡪 String ID[ <OE> ] <init\_arr> <list\_arr>

<init\_arr> 🡪 = { <OE> <arr\_val> | € } | €

<list\_arr> 🡪 , ID <init\_arr> <list\_arr> | €

<arr\_val> 🡪 , <OE> <arr\_va> | €

**dec\_dict**

**syntax**

dict a = { key: value, key:value }

dict a, b, c

dict a, b = { key: value, key: value}, c = {}

CFG

<dec\_dict> 🡪 Dict ID <init\_dict> <list\_dict>

<init\_dict> 🡪 = { ID : <OE> <dict\_val> | € } | €

<list\_dict> 🡪 , ID <init\_dict> <list\_dict> | €

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

**dec\_enum**

**Syntax**

**Enum definiton**

enum Direction : (

North,

South,

East,

West

)

Example

Direction dir = Exp;

Direction dir, dir2

Direction dir, dir2 = “North”, dir3 = “south”

CFG:-

<dec\_enum> 🡪 ID ID <init\_enum> <list\_enum> ;

<init\_enum> → = <OE> | €

<list\_enum> → , ID <init\_enum> <list\_enum > | €

Ye sb bnani hain

<assgn\_arr> 🡪

<assgn\_obj 🡪

<Assgn\_dict>

<Assgn\_enum> 🡪