

Exercise 1

Compile the code on slides and show the AST that would be obtained from the following expressions:

- $a := b + 4;$
- $c := d - (4 + 5) * 3;$
- $z := x / y - (w ^ 3);$

→ $a := b + 4;$

|L --> node (=)

 ID (a)

 node (+)

 ID (b)

 NUM (4)

→ $c := d - (4 + 5) * 3;$

|L --> node (=)

 ID (c)

 node (-)

 ID (d)

 node (*)

 node (+)

 NUM (4)

 NUM (5)

 NUM (3)

→ $z := x / y - (w ^ 3);$

|L --> node (=)

 ID (z)

 node (-)

 node (/)

 ID (x)

 ID (y)

 node (^)

 ID (w)

 NUM (3)