

## Part A:

a)

- Syntax
- Value
- Environment
- Behavior specification
- Behavior Implementation

b)

- **Syntax:**
  - lang.rkt interp.rkt
- **Value:**
  - data-structures.rkt
- **Environment:**
  - **Definition:** data-structures.rkt
  - **Handling:** environments.rkt
- **Behavior Specification:**
  - Environments.rkt
  - Documentation Provided
- **Behavior Implementation:**
  - interp.rkt

## Part B:

(2)  $\rho = [x = 4]$

[empty-env]

when we want to add a  $z = 3$  to  $\rho$  we will do

$[z = 3]\rho$

or for adding multiple variables

$[y = 2]$

$[z = 3]\rho$

## Part C:

- **Expressed Values:**
  - Boolean
  - Int
  - Rational
  - List
  - Pair
- **Denoted Values:**
  - Boolean
  - Int
  - Rational
  - List
  - Pair

## **Workload**

We all sat down together in a meeting and discussed the answers and wrote them. While we all discussed the questions together, one person was writing them down. That person is Ahmad. All three of us were answering the questions together in all parts, including the pdf.