scheme instructions：

【scheme\_eval\_apply.py】

* scheme\_eval（evaluates a Scheme expression in the given environment.）

1.When evaluating a special form, scheme\_eval redirects evaluation to an appropriate do\_?\_form function found in scheme\_forms.py

* scheme\_apply（applies a procedure to some arguments.）
* eval\_all

【scheme\_classes.py】classes that describe Scheme expressions

* Frame class （implements an environment frame）

1.bindings –> bindings is a dictionary representing the bindings in the frame. It maps Scheme symbols (represented as Python strings) to Scheme values.

2.parent -> is the parent Frame instance. The parent of the Global Frame is None.

1) define takes a symbol (represented by a Python string) and a value. It binds the symbol to the value in the Frame instance.

2) lookup takes a symbol and returns the value bound to that symbol in the first frame of the environment in which the symbol is bound. The environment for a Frame instance consists of that frame, its parent frame, and all its ancestor frames, including the Global Frame.

3）make\_child\_frame：create new frames when calling user-defined procedures. This method takes in two arguments: formals, which is a Scheme list of symbols, and vals, which is a Scheme list of values.

\* If the symbol is not found in the current frame and there is no parent frame, raise a SchemeError.

* LambdaProcedure class （(in the Procedures section) represents user-defined procedures.）

【scheme\_forms.py】defines special forms

1.do\_define\_form：evaluates (define ...) expressions.

2. do\_quote\_form：evaluate the (quote ...) syntax

【scheme\_builtins.py】defines the various functions built into the standard library

【scheme.py】 defines input/output behavior.

【scheme\_builtins.py】 built-in Scheme procedures

\* Any function decorated with @builtin will be added to the globally-defined BUILTINS list.

1.BuiltinProcedure：

* py\_func: the Python function that implements the built-in Scheme procedure.
* expect\_env: a Boolean flag that indicates whether or not this built-in procedure will expect the current environment to be passed in as the last argument.