Python Process

1) Source Code
Process start with the code written in . hy bile

2) Lexical Analysis

Python interpreter reads the source code and breaks it down into tokens [lexical components like keywords, operators, identifiers]

3) Parsing

Tokens are passed to parser, which checks the syntax of the code

- 4) Abstract Syntax Tree [AST]

 Hierarchical structure of the source code,

 relationship between codes.
- 5) Byte code compilation . hyc files
- 6) Interpreter execution
 Python Virtual Machine [Pum]
- 7) Memory management
- 8) Runtime

Extensions > .mh3, .mh4, .hht, .hhtx

· hy [Source code]
· hyc [compiled]
· hyw [GUI]
· hyz [ZIP files]

Variables

Block of container

To store a value

natatype

Patatypes 1) Integer (int) -> 5,0,-5,-1000,7,9 2) Float (float) => 5.5, -1.1, 180.997, -11.11 1112.....4...51 3) Complex Number "abx 123" a) Strings > "abe", "ayz", aaaaa, "a) " 1234" 5) Boolean [Bool] -> True / False

6) List Tuple/Octlonary /Set

7) NoneType -> None

Rules to name a variable

7 = S y= "Aniridh"

1) Start with a-2, A-Z, -

2) Can contain a-2, A-2, -,0-9

3) Cannot contain special symbol (?,>,<,-4) Should not be a reserved keyword [16, else,

while /for, heint, 32-35) Oferators

2 or more
variable/
values

5% 10

% 2018% 10 = 0 2018% 10 = 20 = 2