Errors:

Syntax (typos)

Runtime(exceptions) e.g. divide by 0

Semantic()

Language:

Values (anything including everything in “”)

* “Text” is type string
  + >>> "4"+"4"
  + '44'
* 4 is integer
  + >>> 4+4
  + 8
* 3.15 is float
  + >>> 4.0+4.0
  + 8.0

Variables (x or any name with a value)

* Pi = 3.14
* N = 40
* X = “text”

Expressions (uses both values and variables, also functions)

Print()

Len is the length of the variable (counts)

% is 7/6 is 1 3/6 is 0

// integer (4) division

\*\* power

Reassignment

* A=5
* B=a
* Print(a,b)
* And change a=3, then be doesn’t change to 5
* Print(a,b)

Updating

* X=6
* X=x+1
* Because x cannot be equal to x+1, then x updates to 7