Modules

* Import
* Check python documentation

Function

* def draw\_circle():
* possible to not have parameters in parenthesis
* proper indentation required
* return
  + returns output into main code
  + exits the code, ignores remaining line (dead code)
  + None appears when function has no output and the function is printed
* contains local variables that do not exist in the parent/global frame and will be destroyed after function exits
* caller / callee (the thing being called)
* global C edits the global variable C by doing subsequent statements to global C

for loop

|  |
| --- |
| for name in ["Joe", "Amy", "Brad", "Zuki", "Thandi", "Paris"]: |
|  |

Range

**for** i **in** [0, 1, 2, 3]: *# repeat four times*

**for** i **in** range(4):

*# Executes the body with i = 0, then 1, then 2, then 3  
 # Incremental integer. range(-10) invalid*

range(start, beyondLast, step)

if branch

x = 10  
y = 10

if x < y: *# rmb the colon* print("x is less than y")

elif x > y:  
 print("x is greater than y")

else:  
 print("x and y must be equal")

Dependency Diagram

* used to breakdown the problem statement and set up code requirements
* pset2 q3 area > s > distance

Bool Conversion Function

* Bool(1) >> True Bool(0) >> False Bool(-1) >> True
* Bool(“hello”) >> True Bool(“”) >> False

Thymio

Connect to wireless by checking IP address

print(robot.temperature) # in celsius