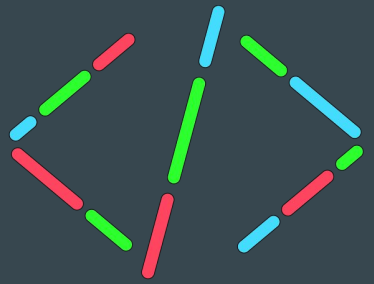

Review Session

Hawken Coding Club
Educational Meeting No. 4

Code Review

Importing

Developers can make their own libraries that you can import for added functions.

Functions of a library are called like this: nameOfTheLibrary.nameOfFunction()

Popular Libraries:
https://www.ubuntupit.com/best-python-libraries-and-packages-for-beginners/

```
import random
myList = [1,2,3,4]
random.shuffle(myList)
print(myList)
```

```
[2, 4, 3, 1]
```

Random

Common Functions

shuffle

```
import random
myList = [1,2,3,4]
random.shuffle(myList)
print(myList)
```

```
[2, 4, 3, 1]
```

randint

```
print(random.randint(0, 5))
```

```
3
```

Challenge

slido

Simulate the flip of a coin 10000 times. Then print the "The percentage of heads was" followed by the percentage of heads. Do the same for tails.

ⓘ Start presenting to display the poll results on this slide.

Challenge #2

slido

You have 10 minutes to make a calculator. Make as many or as few operations as possible. Ideas (Addition, Subtraction, Multiplication, Division, Exponents, Factorial, Area or Other Measurements of Shapes, etc.)

ⓘ Start presenting to display the poll results on this slide.

Challenge #3

slido

Make a random number guesser. Ask the user for the number of guesses and the range of numbers. Then create a random number between 0 and the range. If the user guesses the correct number within the amount of required guesses, reward them. If they don't...

ⓘ Start presenting to display the poll results on this slide.

Group Challenge

Make two functions called hopDistance and simulate. hopDistance should return a random number between -2 and 5. simulate has two parameters, distance and hops, and should simulate a frogs attempt to cross a goal line. The frogs starting distance will be 0. The function will return true if the frog reaches the goal within the allowed number of hops, and false otherwise. Continuously use the hopDistance function to get a hop distance until either.

- The frog has reached or passed the goal
- The frog has reached a negative position
- The frog has taken the maximum number of hops without reaching the goal