Welcome
Your Lecturer for this session



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Objectives

Learn how to use the for loop to repeat a block of code a specified amount of times.

for Loops

- ★ For loops are used when we need code to run a specified amount of times.
- ★ Think of it making the task of creating ten print statements much easier.

```
print("Again")
print("Again")
print("Again")
print("Again")
print("Again")
print("Again")
print("Again")
print("Again")
print("Again")
```

for Loop Syntax

```
for item in iterable:
    # Do something :)
```

- ★ Iterable_object: a list of numbers, a string of characters, a range etc.
- ★ Item: temporary variable used inside the for loop to reference the current position of our iterator.

for Loop Example

```
greetings = "Hello"
for character in greetings:
    print(character)
```

- ★ The above loop will iterate over the string "greetings".
- ★ This entails that the temporary variable character will continuously be updated with each letter found in "coffee".
- ★ Which results in the following output: (Queue Hyperiondev Code Editor)

for Loops and Range

★ With for loops we can also get a range of numbers from a starting value to an ending value.

```
# From 1 up to, but EXCLUDING 5
for number in range(1, 5):
    print(number)
```

The output here will be all values from 1 to 4.

Range

★ Range allows us to run a block of code a specified amount of times.

Range	Description	Additional Info
range(10)	Outputs integers from 0 through 9	Range will always start from 0
range(1, 10)	Outputs integers from 1 to 9	Parameters(start, end)
range(1, 10, 2)	Outputs odd numbers from 1 to 10	Third available parameter is "step" (how many to skip)
range(10, 0, -1)	Outputs integers from 10 to 1	Negative counter that skips backwards

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Q & A Section

Please use this time to ask any questions relating to the topic, should you have any.



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Thank You for Joining Us