Python Basics - Loops

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1. For Loop:
Used to iterate over a sequence (list, tuple, string, etc.).
for i in range(5):
  print(i)
# Output: 0 1 2 3 4
2. While Loop:
Repeats as long as a condition is True.
Example:
i = 0
while i < 5:
  print(i)
  i += 1
3. Loop Control Statements:
- break : Exit the loop immediately.
- continue : Skip current iteration and continue.
- pass : Does nothing, used as placeholder.
4. Nested Loops:
Loops inside loops.
Example:
for i in range(3):
  for j in range(2):
     print(i, j)
5. Else with Loop:
In Python, loops can have an else block that executes when loop ends normally.
Example:
for i in range(5):
  print(i)
else:
  print("Loop finished!")
```