Artificial Intelligence (Machine Learning & Deep Learning) [Course]
Week 1 - Day 4
**[See examples / code in GitHub code repository]**

It is not about Theory, it is 20% Theory and 80% Practical – Technical/Development/Programming [Mostly Python based]

Conditional Execution

If Statement

- An **if statement** consists of a boolean expression followed by one or more statements.
- The Boolean expression after the if statement is called the condition. We end the if statement with a colon character (:) and the line(s) after the if statement are indented.

```python
if x > 0 :
    print ("x is positive")
```
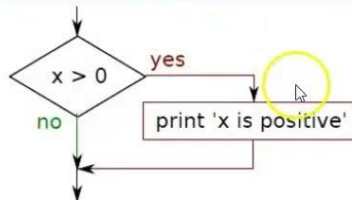
References:
https://www.geeksforgeeks.org/conditional-statements-in-python/
https://www.w3schools.com/python/python_conditions.asp
https://realpython.com/python-conditional-statements/

Exercises

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Break, continue, and pass statements

When used inside the loop, will terminate the loop and exit	It will stop the current execution, and the control will go back to the start of the loop	It is used as a placeholder for future code
Break Statement	Continue Statement	Pass Statement

References:
https://www.digitalocean.com/community/tutorials/how-to-use-break-
https://www.geeksforgeeks.org/loops-and-control-statements-continue
https://pynative.com/python-break-continue-pass/

Exercises

For - While - Loop

References:

https://www.geeksforgeeks.org/loops-in-python/
https://www.geeksforgeeks.org/difference-between-for-loop-and-while
https://www.w3schools.com/python/python_while_loops.asp

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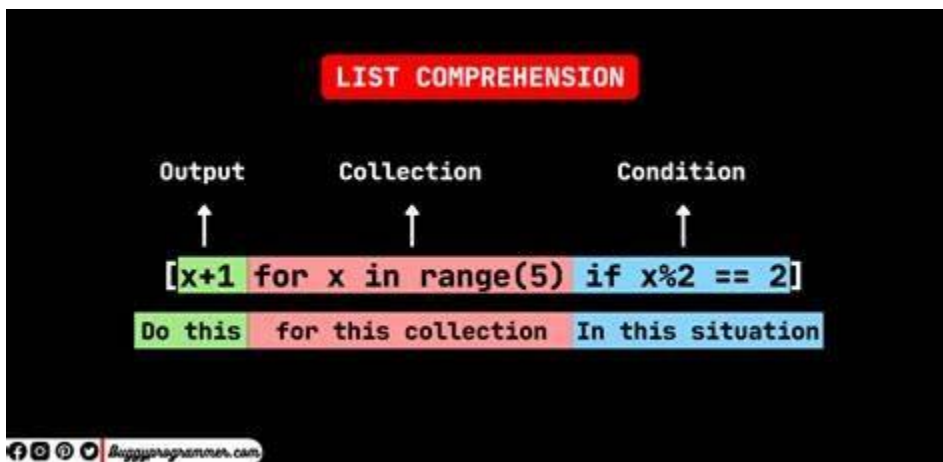**Exercises**

List comprehension

References:
https://www.w3schools.com/python/python_lists_comprehension.asp
https://www.geeksforgeeks.org/python-list-comprehension/
https://realpython.com/list-comprehension-python/

Exercises

Iterators and Iterables
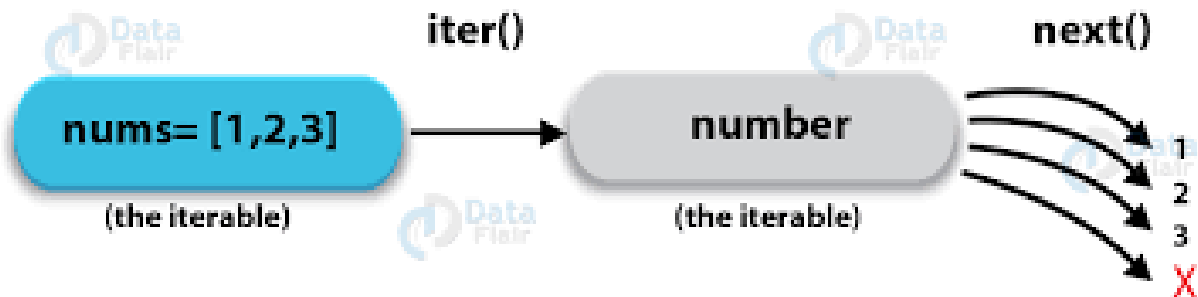
References:
https://www.geeksforgeeks.org/python-difference-iterable-iterator/
https://realpython.com/python-iterators-iterables/
https://www.w3schools.com/python/python_iterators.asp

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Exercises

Thank you - for listening and participating

❑**Questions / Queries**

❑**Suggestions/Recommendation**

❑**Ideas…..?**

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