**DAILY ASSESSMENT FORMAT**

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| **Date:** | **23-05-2020** | **Name:** | **Dhanya Shetty** |
| **Course:** | **TCSion** | **USN:** | **4AL17EC026** |
| **Topic:** | **Ace Corporate Interviews** | **Semester & Section:** | **6th A** |
| **Github Repository:** | **Dhanya Shetty\_026** |  |  |

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| **FORENOON SESSION DETAILS** |
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| C:\Users\Hp\Downloads\6th sem assignments\20200523_163703.jpg   |  |  | | --- | --- | |  | | |  | | **C:\Users\Hp\Downloads\6th sem assignments\20200523_163724.jpg** | | |
| |  |  |  | | --- | --- | --- | | **Date: 23-05-2020** |  | **Name: Dhanya Shetty** | | **Course: Python** |  | **USN:4AL17EC026** | | **Topic: The Basics: Loops** |  | **Semester & Section:6th A** | |

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| **AFTERNOON SESSION DETAILS** | |
| **Image of sessions**  **C:\Users\Hp\Pictures\23py01.PNG** | |
| C:\Users\Hp\Pictures\23py02.PNG    C:\Users\Hp\Pictures\23py03.PNG  **Python For Loops :**  A for loop is used for iterating over a sequence (that is either a list, a tuple, a dictionary, a set, or a string).  This is less like the for keyword in other programming languages, and works more like an iterator method as found in other object-orientated programming languages.  With the for loop we can execute a set of statements, once for each item in a list, tuple, set etc.  Example  Print each fruit in a fruit list:  fruits = ["apple", "banana", "cherry"] for x in fruits:   print(x)  The for loop does not require an indexing variable to set beforehand.  Looping Through a String  Even strings are iterable objects, they contain a sequence of characters:  Example  Loop through the letters in the word "banana":  for x in "banana":   print(x)  The break Statement  With the break statement we can stop the loop before it has looped through all the items:  Example  Exit the loop when x is "banana":  fruits = ["apple", "banana", "cherry"] for x in fruits:   print(x)   if x == "banana":     break  Example  Exit the loop when x is "banana", but this time the break comes before the print:  fruits = ["apple", "banana", "cherry"] for x in fruits:   if x == "banana":     break   print(x)  8000 Google  **Summary:**  **What are python Loops?**  **loops** are traditionally used when you have a block of code which you want to repeat a fixed number of times. The **Python** for **statement** iterates over the members of a sequence in order, executing the block each time.  **Python** is an [interpreted](https://en.wikipedia.org/wiki/Interpreted_language), [high-level](https://en.wikipedia.org/wiki/High-level_programming_language), [general-purpose](https://en.wikipedia.org/wiki/General-purpose_programming_language) [programming language](https://en.wikipedia.org/wiki/Programming_language). Created by [Guido van Rossum](https://en.wikipedia.org/wiki/Guido_van_Rossum) and first released in 1991, Python's design philosophy emphasizes [code readability](https://en.wikipedia.org/wiki/Code_readability) with its notable use of [significant whitespace](https://en.wikipedia.org/wiki/Off-side_rule). Its [language constructs](https://en.wikipedia.org/wiki/Language_construct) and [object-oriented](https://en.wikipedia.org/wiki/Object-oriented_programming) approach aim to help programmers write clear, logical code for small and large-scale projects.[[28]](https://en.wikipedia.org/wiki/Python_(programming_language)#cite_note-AutoNT-7-28)  Python is [dynamically typed](https://en.wikipedia.org/wiki/Dynamic_programming_language) and [garbage-collected](https://en.wikipedia.org/wiki/Garbage_collection_(computer_science)). It supports multiple [programming paradigms](https://en.wikipedia.org/wiki/Programming_paradigms), including [structured](https://en.wikipedia.org/wiki/Structured_programming) (particularly, [procedural](https://en.wikipedia.org/wiki/Procedural_programming)), object-oriented, and [functional programming](https://en.wikipedia.org/wiki/Functional_programming). Python is often described as a "batteries included" language due to its comprehensive [standard library](https://en.wikipedia.org/wiki/Standard_library).[[29]](https://en.wikipedia.org/wiki/Python_(programming_language)#cite_note-About-29)  Python was conceived in the late 1980s as a successor to the [ABC language](https://en.wikipedia.org/wiki/ABC_(programming_language)). Python 2.0, released in 2000, introduced features like [list comprehensions](https://en.wikipedia.org/wiki/List_comprehension) and a garbage collection system capable of collecting [reference cycles](https://en.wikipedia.org/wiki/Reference_cycle). Python 3.0, released in 2008, was a major revision of the language that is not completely [backward-compatible](https://en.wikipedia.org/wiki/Backward_compatibility), and much Python 2 code does not run unmodified on Python 3.  The Python 2 language was officially discontinued in 2020 (first planned for 2015), and "Python 2.7.18 is the last Python 2.7 release and therefore the last Python 2 release."[[30]](https://en.wikipedia.org/wiki/Python_(programming_language)#cite_note-30) No more security patches or other improvements will be released for it.[[31]](https://en.wikipedia.org/wiki/Python_(programming_language)#cite_note-31)[[32]](https://en.wikipedia.org/wiki/Python_(programming_language)#cite_note-32) With Python 2's [end-of-life](https://en.wikipedia.org/wiki/End-of-life_(product)), only Python 3.5.x[[33]](https://en.wikipedia.org/wiki/Python_(programming_language)#cite_note-33) and later are supported.  Python [interpreters](https://en.wikipedia.org/wiki/Interpreter_(computing)) are available for many [operating systems](https://en.wikipedia.org/wiki/Operating_system). A global community of programmers develops and maintains [C Python](https://en.wikipedia.org/wiki/CPython), an [open source](https://en.wikipedia.org/wiki/Open-source_software)[[34]](https://en.wikipedia.org/wiki/Python_(programming_language)#cite_note-34) [reference implementation](https://en.wikipedia.org/wiki/Reference_implementation). A [non-profit organization](https://en.wikipedia.org/wiki/Nonprofit_organization), the [Python Software Foundation](https://en.wikipedia.org/wiki/Python_Software_Foundation), manages and directs resources for Python and C Python development. | |