**Module – 2 (Fundamentals of python)**

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**Q-4 How memory is managed in Python?**

-> Memory management in Python is handled by its runtime environment, particularly its memory manager.

1) Automatic Memory Management: Python uses a built-in memory manager that manages the allocation and deallocation of memory for objects.

2) Garbage Collection: Python employs a garbage collector to automatically reclaim memory occupied by objects that are no longer referenced or needed.

3) Reference Counting: Python uses reference counting as the primary means of memory management.

4) Cycle Detection: Python's garbage collector also includes a cycle detector that can detect and break reference cycles.

**Q-5 What is the purpose continue statement in python?**

-> The continue statement in Python is used within loops (such as for or while) to skip the rest of the current iteration and proceed to the next iteration. It's useful when you want to bypass certain iterations based on a condition without exiting the loop entirely.

**Q-14 What are negative indexes and why are they used?**

-> Negative indexes in Python refer to indexing elements from the end of a sequence rather than from the beginning. They are used to access elements in reverse order or to conveniently refer to elements relative to the end of the sequence without needing to know its length. For example, -1 refers to the last element, -2 refers to the second to last, and so on.