Suman IT Technologies

2) Python Memory Management

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What is memory management?

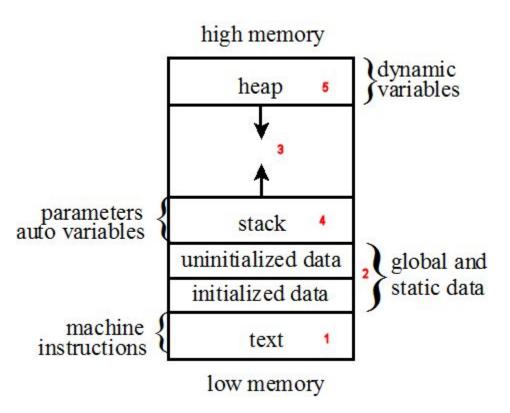
- 1) Memory management is a process of allocating, deallocating the memory to variables.
- 2) Memory management is about efficiently utilising the memory , so that others process run smoothly.
- 3) In python memory management is done automatically done by memory manager.
- 4) Memory management also involves cleaning memory of object that no longer accessed by any reference.
- 5) The process of cleaning memory of unreferenced object is called as garbage collection.
- 6) Python uses Reference Counting algorithm for garbage collection. This algorithm keep track of all references of object.

 When object is no more referenced by any variable, object is removed by garbage collector.
- 7) All these process are automated in python, we do not need to worry about memory management.

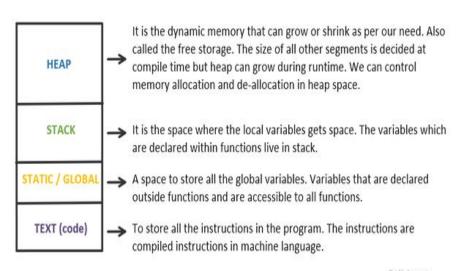
How memory is allocated to variables in python

- 1) Everything in python is object.
- 2) Python stores object in heap memory and reference of object in stack.
- 3) Variables, functions stored in stack and object is stored in heap.

High level structure of Memory



Description of each part



Tridib Samanta

Process to read /write data to heap

