

Memory Management Practice :

1. Write a Python program that creates an object and prints its reference count at different stages using the `sys` module.
 2. Write a program to show that two variables pointing to the same immutable object share the same memory location using `id()`.
 3. Write a program that demonstrates how memory behavior differs when modifying a **list** versus a **tuple**.
 4. Create a program that generates circular references between two objects and show how Python's garbage collector handles them using the `gc` module.
 5. Write a program that keeps adding objects to a global list inside a function call and explain why memory usage keeps increasing.
 6. Write a program to demonstrate how local variables are created and destroyed in memory when a function is called and returns.
 7. Write a program that compares memory addresses when using assignment (`=`), `copy.copy()`, and `copy.deepcopy()` on a nested list.
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