**Q1: Global Variable vs Local Variable**

* Global variables exist throughout the program, while local variables exist only inside functions.
* Example execution:
  + Before calling foo(a): Global → a : 3, Local → None.
  + Inside foo(a): Local a : 5, Global a : 3.
  + After execution: Global a : 3, d : 5.

**Q2: Function Calling Another Function**

* The function stack grows when one function calls another.
* Example:
  + foo(5) calls bar(5), which returns 9.
  + The function stack contains foo(5) and bar(5) before returning 9.

**Q3: Value of x**

* If a function modifies x using global x, its value changes globally.
* Example:
  + x : 3 initially, but after calling update(), x : 10.

**Q4: Memory Model**

* **Global Variables:** Stored in the global frame.
* **Local Variables:** Exist only inside function stacks.
* Example:
  + Before function call: x : 3.
  + Inside foo(x): Local b : 8.
  + After function call: y : 8, x : 3.