Value Types V/s Reference Types

The type of a data item defines how much memory is required to store it and the data members that comprise it.

The type also determines where an object is stored in memory—the stack or the **heap**.

Types are divided into two categories:

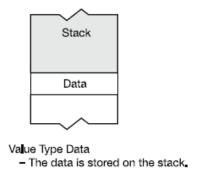
- 1, value types
- 2, reference types.

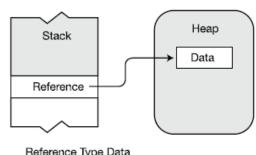
Objects of these types are stored differently in memory

Value types : - require only a single segment of memory, which stores the actual data in stack

Reference types :- require two segments of memory: Actual data → is always located in the heap

Reference to data → stored in stack or heap





Reference Type Data

- The data is stored in the heap.
- The reference is stored on the stack.