OS ⟹ Fresh block of memory on Heap

malloc() ⟹ It Calculates requested size
                    $5 \times 4 = 20$ bytes.

return the address of the first byte of
              the block

          1   2   3   4   5

Initially garbage values
      9749264♡   44   48   52   56

free() ⟹ space is released.