***Copy by value VS Copy by Reference:***

1. **Copy by value:**
   1. Copy by value means copy of actual parameter’s value is made in the memory i.e caller and callie has two different variable having same value.
   2. Example:
      1. Suppose we have a variable named “a”.Now we store primitive value in the variable” a”.
      2. Let a =5.Now variable “a” stores primitive value 5 and has an address location where that value sits in the memory.
      3. Now suppose we copy value of “a“ in “b” by assignment (a=b).Now “b” points to different location in memory containing the same data as variable “a”.
      4. Thus a=b=5,but both points to different location .
      5. Thus two variable become the same by copying the value but have different location in memory.
   3. As both of these variable have different location any modification in either of the variable does not effect the other variable.
2. **Copy By Reference:**
   1. Suppose we have an object stored in variable “a”.The variable stores the location or address where object lives in memory.Now if we set a=b.Now new variable “b” instead of pointing to new location in memory ,points to same location where “a “ does.No new object is created ,no copy is created.This is call by reference.
   2. In JavaScript all object interact by reference.
   3. Changes made in one object variable affects the other object variable.