**Question**: Find the Majority Element in an Array

Write a program to find the majority element in an array(an element that appears more than n/2 times). For example, in the array[3,3,4,2,4,4,2,4,4], the output should be 4.

## Solution:

```
def func(arr):
  count,elem = 0,None
  for i in range(len(arr)):
    if count == 0:
       count = 1
       elem = arr[i]
    elif elem == arr[i]:
       count += 1
    else:
       count -= 1
  check_count = 0
  for i in range(len(arr)):
    if arr[i] == elem:
       check_count += 1
  return elem if check_count > (len(arr)//2) else -1
arr =[3,3,4,2,4,4,2,4,4]
print(func(arr))
```

Output: 4