```
def moyenne(tab: list):
    assert tab != [], 'erreur'
    n = len(tab)
    somme = 0
    for i in range(n):
        somme += tab[i]
    return somme / n
print (moyenne([5,3,8]))
print (moyenne ([1,2,3,4,5,6,7,8,9,10]))
# print(moyenne([]))
import unittest
class validation(unittest.TestCase):
    def test_assertion(self):
        self.assertRaises(AssertionError, moyenne, [])
    def test1(self):
         self.assertEqual(moyenne([1,2,3,4,5,6,7,8,9,10]), 5.5)
    def test2(self):
         self.assertEqual(moyenne([5, 3, 8]), (5+3+8)/3)
    def test_alea(self):
        def moyenne_sol(tab: list):
             n = len(tab)
             somme = 0
             for i in range(n):
                 somme += tab[i]
             return somme / n
         from random import randint
         for i in range(1, 100):
             tab = [randint(-100, 100) for _ in range(i)]
self.assertEqual(moyenne(tab), moyenne_sol(tab))
# unittest.main()
moyenne([])
```