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In [ ]: | #This is to verify that Python works properly on your computer.
        import platform
        print(platform.python_version())
        3.9.13
In [ ]: | # Generate a list of random numbers using random module in Python
        import random
        random_lst = []
        for i in range (1, 50):
            random lst.append(random.randint(0,200))
        print(random_lst)
        [150, 121, 145, 184, 131, 33, 46, 91, 138, 160, 93, 41, 38, 167, 109, 149, 110, 77,
        172, 153, 75, 89, 71, 109, 9, 168, 121, 9, 125, 107, 125, 189, 175, 10, 101, 27, 11
        8, 122, 151, 125, 134, 8, 155, 115, 97, 82, 105, 155, 10]
In [ ]: #Calculate the mean value for the list by looping through its element
        res1 = 0
        for i in random_lst:
            res1 += i
        mean = res1 / len(random_lst)
        print(mean)
        106.0204081632653
In [ ]: #Double check the mean
        sum_lst = sum(random_lst)
        mean2 = sum_lst / len(random_lst)
        print(mean2)
        106.0204081632653
In [ ]:
        #Calculate the variance of the list
        top = 0
        for i in random_lst:
            top += pow(i-mean, 2)
        bottom = len(random_lst)-1
        variance = top/bottom
        print(variance)
        2638.770408163266
In [ ]: #Double check the variance of the list
        import statistics
        print(statistics.variance(random_lst))
        2638,770408163265
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