## Python program to implement One Sample Z-test

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In [1]:
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         #Section : B
         #Roll No : 55
         #Date : 29/02/2024
In [2]:
         #importing the required libraries
         import pandas as pd
         from scipy import stats
         from statsmodels.stats import weightstats as stests
In [3]:
         #Creating a dataset
         data = [89,93,95,93,97,98,96,99,93,97,110,104,119,105,104,110,110,112,115,114]
In [7]:
         #Performing the z-test
         z_test,p_val = stests.ztest(data,x2 = None, value = 160)
In [8]:
         print(p_val)
        2.417334226169332e-186
In [9]:
         #Taking the threshold value as 0.05 or 5%
         if p_val < 0.05:
             print("we are reject null hypothesis")
             print("we are accept null hypothesis")
        we are reject null hypothesis
In [ ]:
```