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In []: # Name:Khushi Chandrashekhar Satpute
         #Aim: To perform and analysis of T-test Parametric Test
         #Roll No:43
         #Sec:B
 In [1]: ages=[10,20,35,50,28,40,55,18,16,55,30,25,43,18,30,28,14,24,16,17,32,35,26,27,65,18,43,23,21,20,19,70]
 In [3]: len(ages)
 Out[3]: 32
 In [5]: import numpy as np
         ages_mean=np.mean(ages)
         print(ages_mean)
        30.34375
 In [7]: type(ages)
 Out[7]: list
 In [9]: ## Lets take sample
         sample_size=10
         age sample=np.random.choice(ages,sample size)
In [11]: age sample
Out[11]: array([50, 35, 43, 17, 21, 30, 35, 20, 21, 16])
In [13]: age sample
Out[13]: array([50, 35, 43, 17, 21, 30, 35, 20, 21, 16])
In [15]: from scipy.stats import ttest_1samp
In [17]: ttest,p value=ttest 1samp(age sample,30)
In [19]: print(p value)
        0.753055125656357
In [27]:
         if p_value < 0.05: # alpha value is 0.05 or 5%
             print(" we are rejecting null hypothesis")
             print("we are accepting null hypothesis")
        we are accepting null hypothesis
 In [ ]:
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