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In [1]: #Experiment no 5 To Perform Hypothesis testing using ANOVA (F-Test)one-way F-Test.
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In [6]: #Name: :Shravani M Karne  
#Roll no.: 39  
#Sec : A  
#Year: 3rd Year  
#Sub: Big Data Analysis (ET 2 Lab)
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In [7]: import scipy.stats
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In [8]: data1 =[0.0842, 0.0368, 0.0847, 0.0935, 0.0376, 0.0963, 0.0684, 0.0758, 0.0854, 0.0855]  
data2 =[0.0785, 0.0845, 0.0758, 0.0853, 0.0946, 0.0785, 0.0853, 0.0685]  
data3 =[0.0864, 0.2522, 0.0894, 0.2724, 0.0853, 0.1367, 0.853]
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In [9]: f_test, p_val = scipy.stats.f_oneway(data1, data2, data3)
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In [10]: print("p-value is:", p_val)  
  
p-value is: 0.04043792126789144
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In [11]: if p_val < 0.05:  
    print("We can reject the null hypothesis")  
else:  
    print("We can accept the null hypothesis")  
  
We can reject the null hypothesis
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In [ ]:
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