

To perform the hypothesis testing using ANOVA i.e one way F test

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In [ ]: #Name: Siddhi N. Sakharkar  
#Roll no.: 51  
#Sec:B
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In [1]: import scipy.stats
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In [2]: data1 = [0.084 , 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 [4]: f_test, p_val = scipy.stats.f_oneway(data1,data2,data3)  
print("p-value is:",p_val)
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p-value is: 0.040421977898159836

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In [6]: if p_val < 0.05:  
print("We are rejecting null hypothesis")  
else:  
print("We are accepting null hypothesis")
```

We are rejecting null hypothesis