```
In [1]:
         #Experiment No.9
In [2]:
         # Aim:To perform and analysis of ANOVA parametric test.
         #Name: Sakshi Padmakar Yeole
         #Class: 3rd yr(B)
         #Subject:ET-II
         #Roll no.:69
 In [3]:
         In [4]:
         len(ages)
Out[4]: 56
 In [5]:
         import numpy as np
 In [6]:
         sample_size=10
         age_sample=np.random.choice(ages,sample_size)
 In [7]:
         # Python program to implement One-Way f-test
         # Importing the required libraries
         import scipy.stats
         import numpy as np
 In [8]: # Creating sample data
         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,
         0.06851
         data3 = [0.0864, 0.2522, 0.0894, 0.2724, 0.0853, 0.1367, 0.853]
 In [9]:
         # Performing the F-Test
         f_test, p_val = scipy.stats.f_oneway(data1, data2, data3)
         print("p-value is: ", p_val)
        p-value is: 0.04043792126789144
In [10]:
         # taking the threshold value as 0.05 or 5%
         if p_val < 0.05:
            print(" We can reject the null hypothesis")
             print("We can accept the null hypothesis")
         We can reject the null hypothesis
In [11]:
         variance1 = np.var(data1)
In [12]:
         print(variance1)
        0.00040949560000000005
In [13]:
         variance2 = np.var(data2)
In [14]:
         print(variance2)
        5.3606874999999995e-05
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In [15]: | variance2 = nn var(data2)

variances = np.var(uatas)
print(variance3)

0.06522053346938775

In []:

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