Python program to implement Mann-Whitney U Test

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In [5]:
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          #Section : B
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          #Date : 05/03/2024
 In [6]:
          # Importing the required dataset
          from scipy.stats import mannwhitneyu
 In [7]:
          # Creating the dataset
          data1 = [0.978, 2.792, 0.248, -0.820, -0.102, -1.203, 0.102, -1.392, -1.395, -1.928]
          data2 = [1.283, -0.284, -0.821, -0.792, -0.793, -0.294, 0.600, 1.294, -1.183, -0.284]
 In [8]:
          # Implementing the test
          k_test, p_val = mannwhitneyu(data1, data2)
          print("P-value is: ", p_val)
         P-value is: 0.520366020896531
In [10]:
          # taking the threshold value as 0.05 or 5%
          if p_val < 0.05:
              print(" We can reject the null hypothesis")
          else:
              print("We can accept the null hypothesis")
         We can accept the null hypothesis
In [ ]:
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