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[100] # np.insert: to add element in between
      #inserts values along the mentioned axis before the given indices.
      #Syntax : numpy.insert(array, object, values, axis = None)
      #Insertion in 1D array
      import numpy as np
      a = np.array([1, 2, 3, 4, 5]) # 1D array
      np.insert(a, 3, 12) #Insert element 12 at index 3
      array([ 1, 2, 3, 12, 4, 5])
[101] np.insert(a, 0, 10) #Insert element 10 before index 0
      array([10, 1, 2, 3, 4, 5])
[103] #Insertion in 2D array
      a = np.array([[1, 2, 3,4,5], [6,7,8,9,10]]) # 2D array
      np.insert(a, 3, 12) #Insert element 12 before 2nd column
      array([ 1, 2, 3, 12, 4, 5, 6, 7, 8, 9, 10])
[108] a = np.array([[1, 2, 3,4,5], [6,7,8,9,10]]) # 2D array
      np.insert(a, 1, 12, axis=0) #Insert element 12 in a row
      array([[1, 2, 3, 4, 5],
             [12, 12, 12, 12, 12],
             [6, 7, 8, 9, 10]])
[110] a = np.array([[1, 2, 3,4,5], [6,7,8,9,10]]) # 2D array
     np.insert(a, 4, 5, axis=1) #Insert element 5 in a column
    array([[ 1, 2, 3, 4, 5, 5],
           [6, 7, 8, 9, 5, 10]])
[111] a = np.array([[1, 2, 3,4,5], [6,7,8,9,10]]) # 2D array
    np.insert(a, 4, [5,8], axis=1) #Insert elements 5 & 8 in a column
    array([[ 1, 2, 3, 4, 5, 5],
           [6, 7, 8, 9, 8, 10]])
 a = np.array( [[1, 2, 3,4,5], [6,7,8,9,10] ]) # 2D array
     np.insert(a, 1, [12,56,23,11,45], axis=0) #Insert element [12,56,23,11,45] in a row
    array([[ 1, 2, 3, 4, 5],
          [12, 56, 23, 11, 45],
           [6, 7, 8, 9, 10]])
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