## Assignment#2

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Author: Willie M. Bonavente [1]: import numpy as np [2]: # Declare a 2D array arr = np.array([ [3, 2, 1], [6, 5, 4], [9, 8, 7]]) [3]: # Step 1: Print the declared two dimensional array print(arr) [[3 2 1] [6 5 4][9 8 7]] [4]: # Step 2:Sort the two dimensional array arr = np.sort(arr) print(arr) [[1 2 3] [4 5 6] [7 8 9]] [5]: # and flatten it after the sorting print(arr.flatten()) [1 2 3 4 5 6 7 8 9] [6]: # Step 3: Reshape to 2D with 3 rows arr = arr.reshape(3, 3) [7]: # Step 4: After the reshaping print it print(arr) [[1 2 3] [4 5 6] [7 8 9]]

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[8]: """
      Step 5: Add to value of 5 to the first row,
              multiply 2 to the 2nd row,
              square the third row.
      n n n
      arr[0] += 5
      arr[1] *= 2
      arr[2] = np.square(arr[2])
 [9]: # 6. Print the updated values of the two dimensional table.
     print(arr)
     [[ 6 7 8]
      [ 8 10 12]
      [49 64 81]]
[10]: # 7.
                  Get the minimum and maximum values of the two dimensional table.
     print("Minimum Value: ",np.min(arr))
     print("Maximum Value: ",np.max(arr))
```

Minimum Value: 6
Maximum Value: 81