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In [1]: import numpy as np
 In [2]: #Get SID Number
         validSid = False
         while validSid == False:
              sid = input("Enter Student ID Number: ")
              if sid.isnumeric() == False:
                  validSid = False
              elif len(sid) > 7:
                  validSid = False
              elif len(sid) < 7:</pre>
                  validSid = False
              else:
                  validSid = True
 In [3]: #Create value by removing everything except the last 2 characters
         val = int(sid[-2:])
 In [4]: if val < 10:
              val = val + 100
 In [5]: print(val)
        67
 In [6]: #Create array a using np.arange
         a = np.arange(val)
 In [7]: #Check shape of array a - should be e.g.:(67,)
         a.shape
 Out[7]: (67,)
 In [8]: print(a)
        [ 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
         24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
         48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66]
 In [9]: #Convert from 1D Array to 2D Array with 1 Row
         a2 = a[np.newaxis, :]
In [10]: print(a2)
         \begin{bmatrix} \begin{bmatrix} 0 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 & 17 & 18 & 19 & 20 & 21 & 22 & 23 \end{bmatrix} 
          24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
          48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66]]
In [11]: #Check shape of array a - should be e.g.:(1, 67)
         a2.shape
Out[11]: (1, 67)
In [12]: #Save a
         a3 = a2
In [13]: print(a3)
        [[ 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
          24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
          48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66]]
In [14]: a3.shape
Out[14]: (1, 67)
In [ ]:
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