HW3_numpy_1_題目

應用numpy，寫出產生以下各題output之程式碼，上傳ipynb檔案

1. 應用**numpy**，寫出產生此陣列之程式碼

In [2]:

Out[2]:
```
array([[  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,  67,  68,  69,  70],
       [ 71,  72,  73,  74,  75,  76,  77,  78,  79,  80],
       [ 81,  82,  83,  84,  85,  86,  87,  88,  89,  90],
       [ 91,  92,  93,  94,  95,  96,  97,  98,  99, 100]])
```

2. 應用**numpy**，寫出產生此陣列之程式碼

In [3]:

Out[3]:
```
array([0.        , 0.05263158, 0.10526316, 0.15789474, 0.21052632,
       0.26315789, 0.31578947, 0.36842105, 0.42105263, 0.47368421,
       0.52631579, 0.57894737, 0.63157895, 0.68421053, 0.73684211,
       0.78947368, 0.84210526, 0.89473684, 0.94736842, 1.        ])
```

3. 應用**numpy**，寫出產生此陣列之程式碼

In [4]:

Out[4]:
```
array([[ 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]])
```

4. 延續第**3**題，找出以下陣列

In [5]:

Out[5]:
```
array([[12, 13, 14, 15],
       [17, 18, 19, 20],
       [22, 23, 24, 25]])
```

5. 延續第**3**題，找出以下陣列

In [6]:

Out[6]:
```
array([[ 2],
       [ 7],
       [12]])
```

6. 印出第**3**題中，所有數值之總和

In [7]:

Out[7]: 325

7. 印出第**3**題中，所有數值之標準差

In [8]:

Out[8]: 7.211102550927978