Exercise

1	Create a 5X2 integer array from a range between 100 to 200 such that the difference between each element is 10
| | ```python
arr = np.arange(100,200,10).reshape(5,2)
``` |
| 2 | Following is the provided numPy array. Return array of items by taking the third column from all rows

sampleArray = numpy.array([[11 ,22, 33], [44, 55, 66], [77, 88, 99]]) |
| | ```python
sampleArray[:,2]
``` |
| 3 | Return array of odd rows and even columns from below numpy array

sampleArray = numpy.array([[3 ,6, 9, 12], [15 ,18, 21, 24], [27 ,30, 33, 36], [39 ,42, 45, 48], [51 ,54, 57, 60]]) |
| | ```python
sampleArray[0:6:2,1:4:2]
``` |
| 4 | Generate two 4x4 arrays with random elements in the range (500-700). Add both arrays element-wise and return only those elements which are multiples of 5. |
| | ```python
arr1 = np.random.randint(500,700,(4,4))
arr2 = np.random.randint(500,700,(4,4))
arr3 = arr1 + arr2

print(arr3[arr3%5==0])
``` |
| 5 | Generate a 10x10 array with random elements in the range (100-150) and return number of multiples of 5 in it. |
| | ```python
arr1 = np.random.randint(500,700,(4,4))
arr2 = np.random.randint(500,700,(4,4))
arr3 = arr1 + arr2
arr4 = arr3[arr3%5==0]

print(arr4)
print('Number of multiples of 5 = {}'.format(arr4.shape[0]))
``` |