ML-in-Finance lab logbook

LB1 22/09/2025

```
import numpy as np
num_elements = 75
a = np.arange(num elements)
a_2d = a.reshape(1, -1)
b = a_2d.copy()
print("Original vector (1D):\n", a)
print("\n2D array with 1 row:\n", a 2d)
print("\nCopied array:\n", b)
print("\nShape of array b:", b.shape)
Original vector (1D): [ 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 67 68 69 70 71 72 73 74]
 2D array with 1 row: [[ 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 67 68 69 70 71 72 73 74]]
Copied array: [[ 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 67 68 69 70 71 72 73 74]] Shape
of array b: (1, 75)
```



