## **TASK 3 PYTHON**

## **Environment used: google colab**

1. Consider the vector [10, 11, 12, 13, 14], how to build a new vector with 5 consecutive zeros interleaved between each value?

```
Original array:
[10 11 12 13 14]
New array:
[10. 0. 0. 0. 0. 11. 0. 0. 0. 0. 12. 0. 0. 0. 0. 0.
13. 0. 0. 0. 0. 14.]
```

2.

```
First array:
[1 0 0 0 1 0]
Second array:
[1 1 1 1 0 1]
Test above two arrays are equal or not!
False
```

3.

```
nan
True
False
nan
False
```

4.

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- 5.
- 1)

```
| 1st array : [3 2 1]
| 2nd array : [1 2 3]
| added array : [4 4 4]
```

2)

```
[ 63 320 83]
[ 77 484 102]
[ 84 248 117]]
```