Numpy Assignment

Problem Statement:

You work in XYZ Company as a Python. The company officials want you to build a python program.

Tasks to be performed:

1. 1. Create a function that takes dimensions as tuples e.g.(3, 3) and a numeric value and returns a numpy array of the given dimension filled with the given value e.g.: solve((3, 3), 5) will return

```
[
[5, 5, 5],
[5, 5, 5],
[5, 5, 5]
```

]

- 2. Create a method that takes n numpy arrays of same dimensions sums them and return the answer.
- 3. Given a 2 D Array of N X M Dimesion, Write a function that accepts this array as well as two numbers N and M. The method should return the top-left N X M sub matrix e.g:

4. Given a 2 D Array of N X M Dimesion, Write a function that accepts this array as well as two numbers N and M The method should return the bottom-right N X M sub matrix e.g:

```
[
    [1, 2, 3],
    [4, 5, 6],
    [7, 8, 9],
]
sub_matrix(matrix, 1, 1) -> should return : (Keep in mind these arrays are zero indexed)
[
    [5, 6]
    [8, 9]
]
```

5. Given a 1 D Numpy Array. Write a function that accepts this array as parameters. The method should return a dictionary with 'mean' and 'std_dev' as key and array's mean and array's standard deviation as values:

```
[1, 1, 1]
solution(arr) -> should return :
{'mean': 1.0, 'std_dev': 0.0}
```