Challenge 4: Add Main Diagonal Elements in a Matrix

Test your knowledge by solving a challenge in this lesson.

We'll cover the following

Problem statement#

Your task is to write a function `add_diagonal`. Your function signature would be:

```
int  add_diagonal ( int  arr [ 3 ] [ 3 ]  , int row , int col )
```

The input array `arr[ ][ ]` will contain the values of type `int`. Your task is to add the elements in the main diagonal of the matrix.

> 📝The row and column index of the main diagonal elements are the same.

Sample input#

```
add_diagonal ({1, 2, 3}, {4, 5, 6}, {7, 8, 9}, 3, 3);
```

Sample output#

```
15
```

Coding exercise#

Before diving directly into the solution, try to solve it yourself. Then check if your code passes all the test cases.

> 📝 Please don't modify the given function `add_diagonal`, or your code will not pass the test cases.

Good luck! 👍

```
1  int add_diagonal(int arr[3][3], int row, int col) {
2    int sum;
3    // Write your code here
4    return sum;
5  }
```

🎉If you have solved the problem, congratulations!

In case you are stuck, go over the solution review in the next lesson.