

# Assignment\_01\_Completed

July 19, 2020

## 1 Assignment 01: Solve a Linear Algebra Problem

*The comments/sections provided are your cues to perform the assignment. You don't need to limit yourself to the number of rows/cells provided. You can add additional rows in each section to add more lines of code.*

*If at any point in time you need help on solving this assignment, view our demo video to understand the different steps of the code.*

**Happy coding!**

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### 1: Import required libraries

```
[2]: import numpy as np
import scipy.linalg as lg
```

### 2: Formulate two linear equations based on the given scenario

There is a test with 30 questions worth 150 marks. The test has two types of questions:

1. True or false – carries 4 marks each
2. Multiple-choice – carries 9 marks each

Find the number of true or false and multiple-choice questions.

```
[4]: test_questions = np.array([[1,1], [4,9]])
test_output = np.array([30, 150])
```

### 3: Apply a suitable method to solve the linear equation

```
[5]: lg.solve(test_questions, test_output)
```

```
[5]: array([24.,  6.])
```