

# Assignment\_01

November 20, 2021

## 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

```
[5]: import numpy as np
import scipy.linalg as linalg
```

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

```
[6]: # if t/f => x, mult=> y then eqns are x + y = 30 & 4x + 9y = 150
lhsArray = np.array([ [1,1], [4,9] ])
rhsArray = np.array([30, 150])
```

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

```
[8]: qnsNos = linalg.solve(lhsArray,rhsArray)
print('No. of True/False qns: ', qnsNos[0], ', No. of multiple choice qns: ',
      ↪qnsNos[1])
```

No. of True/False qns: 24.0 , No. of multiple choice qns: 6.0

```
[ ]:
```