



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!

1: Import required libraries

```
In [7]: import numpy as np
        from scipy import linalg
```

2: Formulate two linear equations based on the given scenario

```
In [9]: #Use SciPy to solve a linear algebra problem.
        #There is a test with 30 questions worth 150 marks. The test has two types
        #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.

        #x + y = 30
        #4x + 9y =150

        Qestion_number_of_variable = np.array([[1,1],[4,9]])
        Qestion_value_of_variable = np.array([30,150])
```

3: Apply a suitable method to solve the linear equation

```
In [10]: linalg.solve(Qestion_number_of_variable,Qestion_value_of_variable)
```

```
Out[10]: array([24.,  6.])
```

```
In [ ]:
```