



## Module 1: Case Study - 1

## Problem Statement:

Consider yourself to be Sam who is a data scientist. He has been invited as a guest lecturer at a college to take an introductory session on Python.

## Tasks To Be Performed:

1. Create a list containing squares of numbers from 1 to 10 (HINT: use List Comprehension).
2. Write a function to check if the year number is a leap year.
3. Write a function to take an array and return another array that contains the members of the first array that are even.
4. Write a function that takes 2 arrays and prints the members of the first array that are present in the second array. (HINT: use Membership Comprehension)