# Module 2: Function and Class Assignment

## Problem Statement:

You work in XYZ Corporation as a Data Analyst. Your corporation has told you to work on functions and classes.

## Tasks To Be Performed:

1. Create a function named 'factor' that can only accept 1 argument. The function should return the factorial of that number.
2. Create a function named 'check_string', the function should accept a string data from the user and the function should check if the user input contains the letter 's' in it. If it contains the letter 's' then print- 'The string is containing the letter 's'', if not then print- 'The string doesn't contain the letter 's''.
3. Create a class named 'student' and inside the class, create a function named 'fun1'- this method should accept the user defined input and return that value:
   a. Create another method named- message() and that method should print the user defined input that we have defined in 'fun1'.

4. Create a lambda function that should double or multiply the number (that we will be passing in the lambda function) by 2. Store the lambda function in a variable named 'double_num'.
5. Take user input string and check whether that string is palindrome or not.