# **EMBARKS SYSTEMATIC SAMPLING**

# Sheet 2

## Part A

## Left triangle pascal’s pattern

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1. Write a Python program that uses a nested loop to print out a multiplication table for the numbers 1 through 10.

## Part B

## Equilateral triangle pattern of alphabets

A

B C

D E F

G H I J

K L M N O

P Q R S T U

1. Write a Python program that asks the user to input three numbers, and then checks whether those numbers can form the sides of a right-angled triangle (i.e. whether the sum of the squares of the two smaller numbers is equal to the square of the largest number).

## Part C

1. Create a base class called Employee with attributes name and salary. Create another base class called Project with an attribute project\_name. Create a derived class called EmployeeProject that inherits from both Employee and Project. Display the details of an employee and their associated project using objects of the EmployeeProject class.
2. Implement a function in Python that reverses a list in place (without creating a new list)