# **EMBARKS SYSTEMATIC SAMPLING**

# Sheet 5

## Part A

1)Sandglass pattern of star

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2) Write a Python program that uses a "for" loop and the "range" function to print out the first 10 numbers in the Fibonacci sequence.

## Part B

### 1)Print reverse number from 10 to 1 using for loop

1

3 2

6 5 4

10 9 8 7

2)Write a program that generates a list of 20 random numbers between -50 and 50, and then prints out the sum of all the positive numbers in the list using a for loop and an if condition

## Part C

1. convert two lists into a dictionary in Python without using a built-in method

2) Implement a program that utilizes hierarchical inheritance to represent a restaurant system. Create a base class called Restaurant with attributes like name and cuisine type. Create two child classes, FastFoodRestaurant and FineDiningRestaurant, that inherit from Restaurant. Add specific attributes and methods to each child class to represent their unique features and offerings.