CS103 Fall 2018
Lab 8

1. (Fencepost Question) Write a Java program that sets a constant for base 2 and the max exponent of 9 and prints all of the powers, separated by commas.

    Base : 2
    Max exponent : 9

    The first 9 powers of 2 are : 2, 4, 8, 16, 32, 64, 128, 256, 512

2. (Sentinel using while loop) Write a java program that calculates the total amount of payment for each employee in a company. First the name of the employee will be taken as an input, and if the user enters "stop" as a employee name the program will terminate.

    Please enter employee's name, or enter stop to exit:
    Veli
    You entered: "Veli"
    Please enter employee's weekly pay:
    4500
    Please enter employee's name, or enter stop to exit:
    Fatma
    You entered: "Fatma"
    Please enter employee's weekly pay:
    6000
    Please enter employee's name, or enter stop to exit:
    John
    You entered: "John"
    Please enter employee's weekly pay:
    5000
    Please enter employee's name, or enter stop to exit:
    stop
    The amount you have to pay to the employee is 15500TL in total.

3. (Random numbers) Write a method called randomLines that prints between 5 and 10 random strings of letters (between "a" and "z"), one per line. Each string should have random length of up to 80 characters.

4. (Do/while loop) Write a guess my name game program in Java.
    Example output:
    Guess my name: Kamil
    Guess my name: Zuftu
    Guess my name: Nuriye
    Guess my name: Alex
    Guess my name: Siri
    Guess my name: Daffy Duck
    Congratulations, you guessed my name correctly!