Baitussalam Techpark - Python Bootcamp Lab 1

Problem: Indoor Voice

Question: Implement a program that prompts the user for input and then outputs that same input in lowercase.

outputs that same input in lowercase.	
Input Example:	

Output Example:

hello

HELLO

Problem: Playback Speed

Question: Create a program that prompts the user for input and outputs the same input, but with each space replaced by three periods (...).

Input Example:

Hello world

Output Example:

Hello...world

Question: Write a program that replaces emotions in a given input with corresponding emojis. Specifically, convert :) to \bigcirc and :(to \bigcirc .

Input Example:

Hello :)

Output Example:

Hello 🕲

Problem: Einstein

Question: Implement a program that calculates the energy equivalent of a given mass using Einstein's equation $E = mc^2$, where E is energy, m is mass, and c is the speed of light (approximately 300,000,000 meters per second).

Input Example:

Mass: 1

Output Example:

Energy: 90000000000000000

Problem: Tip Calculator

Question: Create a program that calculates the tip based on the cost of a meal and the desired tip percentage. The program should prompt the user for the cost of the meal (e.g., \$50.00) and the tip percentage (e.g., 15%), then output the amount to leave as a tip.

Input Example:

Cost of meal: \$50.00 Tip percentage: 15%

Output Example:

Tip: \$7.50