FLAMES PYTHON PROJECT

FLAMES is a popular game, especially among young people, used to predict the relationship between two individuals based on their names. The name "FLAMES" is an acronym that stands for:

- **F**riends
- **L**overs
- **A**ffectionate
- **M**arriage
- **E**nemies
- **S**iblings

Watch the Video below to understand better:
https://youtu.be/KUpMjgo4aUM?si=eG9NpYfUsp2VfGbR

As opposed in the video, our loop will keep calculating till only 1 letter is left in the end.

HINT:

1. Create functions to perform operations
2. Uses String operations
3. For loop and while loop to be used

ALGORITHM:

Step 1:

1. Create a function (1) to take the two names as input.
   → (JAYA and JAYESH)

HINT: Lower the case and remove all spaces from the name

2. WIthin the function, create a variable 'flames' to store the string 'FLAMES'
3. Using nested FOR Loop, check if there are any common characters in the name.
   → (JAY is common)
   HINT: You can use lists to store characters of the strings separately and check
4. If YES, then eliminate those characters
   → (A and ESH left)
5. After eliminating, count the combined number of characters
   A+ESH = 4
   HINT: Can count the number of elements of the list
6. Use the WHILE Loop to eliminate characters from the **combined list** until all common characters are eliminated
   HINT:

```
while true:
```

   This loop calls a function that keeps eliminating common character

Step 2:

Create another function to *interpret the results from previous function* and print the following output:

"Jaya and Jayesh are Enemies"

HINT:

1. Define what each letter stands for in the word 'FLAMES' as given in the description above.
2. Create a while loop that keeps looping according to the game rule until only one character remains from the word 'FLAMES'

   → while len(result)>1

→ M will be eliminated in first round
→ Starting from E, L will be eliminated in second round
→ Starting from A, F will be eliminated in third round
→ Starting from A, A will be eliminated in fourth round
→ Starting from E, S will be eliminated in fifth round
→ E is left at the end (Enemies)

Step 3:

Create a final main() function which interacts with the user, asking for two names, calculates the FLAMES result using the *first function*, interprets the result using the *second function*, and finally *prints the relationship prediction*.

HINT: use the following code at the beginning of the main function which defines the flow of the program

```
if __name__ == "__main__":
```

This block ensures that the main function is executed when the script is run directly.