TASK 4

1)Develop a flames game using python.Flames is a popular game named after the acronym:Friends, Lovers, Affectionate, Marriage, Enemies, Sibling.This game does not accurately predict whether or not an individual is right for you, but it can be fun to play this with your friends.

CODE:

```
# FLAMES Game Implementation in Python

def flames_game(name1, name2):
    def remove_common_characters(str1, str2):
        """Removes common characters between two strings and returns the remaining characters."""
        for char in str1:
            if char in str2:
                str2 = str2.replace(char, '', 1)
                str1 = str1.replace(char, '', 1)
        return str1, str2

    # Convert names to lowercase and remove spaces
    name1 = name1.lower().replace(" ", "")
    name2 = name2.lower().replace(" ", "")

    # Remove common characters between the names
```

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name1, name2 = remove_common_characters(name1, name2)

# Calculate the total remaining character count
total_count = len(name1) + len(name2)

# FLAMES acronym
flames = list("FLAMES")

# Perform the elimination process
while len(flames) > 1:
    index = (total_count % len(flames)) - 1
    if index >= 0:
        flames = flames[index + 1:] + flames[:index]
    else:
        flames = flames[:len(flames) - 1]

# Relationship result
relationships = {
    "F": "Friends",
    "L": "Lovers",
    "A": "Affectionate",
    "M": "Marriage",
    "E": "Enemies",
    "S": "Sibling"
```

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    }

    return relationships[flames[0]]

# Main function to play the game
def main():
    print("Welcome to the FLAMES Game!")
    name1 = input("Enter the first name: ")
    name2 = input("Enter the second name: ")

    result = flames_game(name1, name2)
    print(f"The relationship between {name1} and {name2} is: {result}")

if _name_ == "_main_":
    main()
```

OUTPUT: