

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
```

```
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"
```

```

    }

    return relationships[flames[0]]

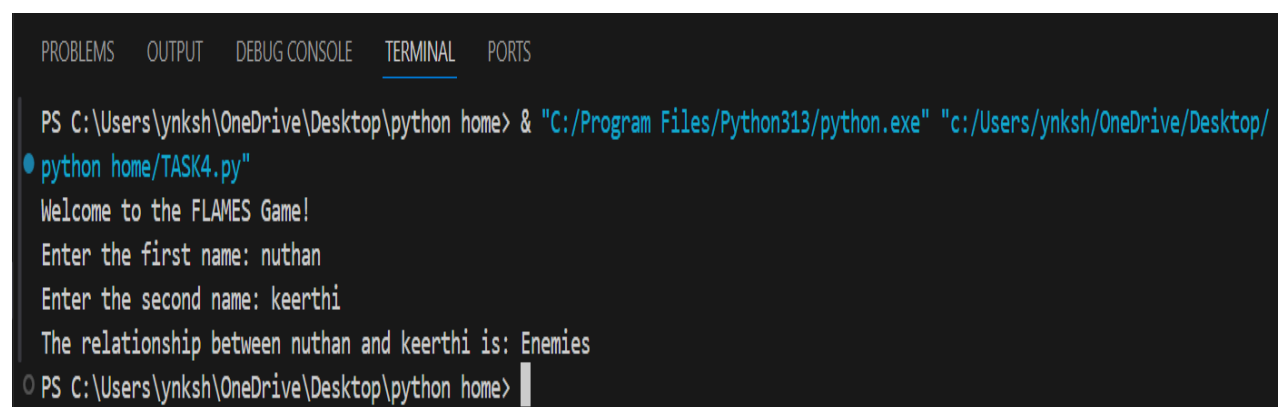
# Main function to play the game
def main():
    print("Welcome to the FLAMES Game!")
    name1 = input("Enter the first name: ")
    name2 = input("Enter the second name: ")

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

if __name__ == "__main__":
    main()

```

OUTPUT:



The screenshot shows a Windows Command Prompt window with the following text:

```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS C:\Users\ynksh\OneDrive\Desktop\python home> & "C:/Program Files/Python313/python.exe" "c:/Users/ynksh/OneDrive/Desktop/
python home/TASK4.py"
Welcome to the FLAMES Game!
Enter the first name: nuthan
Enter the second name: keerthi
The relationship between nuthan and keerthi is: Enemies
PS C:\Users\ynksh\OneDrive\Desktop\python home>

```