

Dylan Pogue
William Roe

Recursion Problem

Requirements:

- Able to take user input.
- Identify least significant digit.
- Add least significant digit.
- Output a single digit.
- Max resolution of computer.
- Start with int and then attempt float.
- Validation and Verification.

Design:

- Take in two user inputs using the console.
- Identify least significant digit by using an array pointer.
- Add least significant digit to the remaining digits utilizing addition and the array pointer.
- Repeat process until only a single digit is left.

The code:

```
"""
```

Recursive Addition

by

William Roe and Dylan Pogue

Last updated: 09/25/2023

Description:

```
"""
```

```
#Take two user inputs from console (3 try input validation)
```

```
def inputNumber(message):
```

```
    while True: #TODO ask user only 3 times, verify number range
```

```
        try:
```

```
            userInput = int(input(message))
```

```
        except ValueError:
```

```
            print("Not an integer! Try again.")
```

```
            continue
```

else:

 return userInput

 break

input1 = inputNumber("Please enter a valid integer (0-1920): ")

input2 = inputNumber("Please enter a second valid integer (0-1920): ")

#Store input into array

#Perform addition recursively utilizing array pointer