

Day 15 coding Statement : Write a program to identify if the number is Strong number or not

Description : Get a number as input from user and then check whether that number is a strong number or not. A number is said to be strong number if the sum of the factorial of each digit in the number is same as that of the number.

E.g. let the number be 145

Here $1! + 4! + 5!$ is $1 + 24 + 120$ which is equal to 145 itself.

Input: 121

Output: Not a strong number

Input: 2

Output: Strong number

CODE:

```
num = int(input("Enter Number: "))
temp = num
def factorial(digit):
    fact = 1
    for i in range(1, digit+1):
        fact *= i
    return fact

sum = 0
while num != 0:
    rem = num % 10
    num = num // 10
    sum += factorial(rem)

if temp == sum:
    print(temp, "is an Strong Number.")
else:
    print(temp, "is Not an Strong Number")
```

OUTPUT:

```
Enter Number: 145  
145 is an Strong Number.  
  
Process finished with exit code 0
```

```
Enter Number: 121  
121 is Not an Strong Number  
  
Process finished with exit code 0
```