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# PPL Lab Assignment 3, PG43 Jaynam Modi, G3
   # Write a Python Program to check if a Number is a Strong Number.
5
   def factorial(inp):
       fact = 1
       for x in range(1, inp+1):
8
           fact = fact * x
 9
       return fact
10
11
   def isStrong(inp):
12
       strong_check = 0
13
       inp = str(inp)
14
15
       for x in inp:
16
            strong_check += factorial(int(x))
17
18
       return int(inp) == strong_check
19
20
   n = input(" > Enter Number to check : ")
22
   if isStrong(n):
24
       print(" > The Number you Entered is a Strong Number.")
   else:
26
       print(" > The Number you Entered is NOT a Strong Number.")
27
   # PRACTICE PROBLEMS.
29
   # 1. Python Program to Check Whether a Number is Positive or Negative.
31
32
   def checkPositivity(n):
33
       if n == 0:
34
            print(" > The number is neither Positive nor Negative.")
35
       elif n > 0:
36
            print(" > The number is Positive.")
37
       else:
38
            print(" > The number is Negative.")
39
     2. Python Program to Check if a Number is a Palindrome.
41
42
   def checkPalindrome(n):
43
       rev = str(n)[::-1]
44
       return n == rev
45
46
   # 3. Python Program to Check if a Number is a Perfect Number.
47
48
   def isPerfect(n):
49
       perfect_check = 0
50
       for x in range(1, n):
51
            if n // x == 0:
52
                perfect_check += x
53
       return n == perfect_check
54
55
# 4. Python Program to Check if a Number is a Prime Number.
57
   def isPrime(n):
58
       flag = 0
59
       for x in range(2, n):
60
            if n // x == 0:
61
                flag += 1
62
       return flag == 0
63
64
   # 5. Python Program to Find the Sum of the Digits of the Number.
65
66
   def sumOfDigits(n):
67
       sum_digits = 0
68
       for x in str(n):
69
            sum_digits += int(x)
70
       return sum_digits
71
72
     6. Python Program to Find the Factorial of the Number.
73
74
   def factorial(inp):
75
       fact = 1
76
       for x in range(1, inp+1):
77
            fact = fact * x
78
       return fact
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u0_a362@localhost:~/github/assignments/PPL$ python ppl_assignment_3.py
> Enter Number to check : 145
> The Number you Entered is a Strong Number.
u0_a362@localhost:~/github/assignments/PPL$ python ppl assignment 3.py
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> Enter Number to check : 534

> The Number you Entered is NOT a Strong Number.

u0_a362@localhost:~/github/assignments/PPL\$