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Python Coding Interview Questions and Answers link

github link : https://lnkd.in/gNZs5b9N (https://lnkd.in/gNZs5b9N)

Python Coding Interview Questions - 3

Q.14 Program to find the sum of digits of a given number in Python

In [2]:

```python
def sum_digits(num):
    sum = 0
    for digit in str(num):
        sum = sum + int(digit)
    return "Sum of digits :",sum
sum_digits(int(input("Enter Number :")))
```

Enter Number :123

Out[2]:

('Sum of digits :', 6)

In [4]:

```python
sum_digits(int(input("Enter Number :")))
```

Enter Number :9182

Out[4]:

('Sum of digits :', 20)

In [5]:

```python
sum_digits(int(input("Enter Number :")))
```

Enter Number :5537

Out[5]:

('Sum of digits :', 20)

In [6]:

```python
sum_digits(int(input("Enter Number :")))
```

Enter Number :5050

Out[6]:

('Sum of digits :', 10)

Q.15 Program to Reverse a given number in Python ?

In [9]:

```python
def reverse_number(num):
    return "Reversed Number :",(str(num)[::-1])
reverse_number(int(input("Enter number :")))
```

Enter number :123

Out[9]:

('Reversed Number :', '321')

In [10]:

```python
reverse_number(int(input("Enter number :")))
```

Enter number :567

Out[10]:

('Reversed Number :', '765')

In [11]:

```
reverse_number(int(input("Enter number :")))
```

Enter number :199

Out[11]:

```
('Reversed Number :', '991')
```

In [13]:

```
reverse_number(int(input("Enter number :")))
```

Enter number :389

Out[13]:

```
('Reversed Number :', '983')
```

Q.16 Program to check whether a given number is Strong or Not in Python ?

In [18]:

```
# identify individual digits
# find factorial for digits
# sum all the factorial of individual digits
```

In [2]:

```
n = int(input())
temp = n
sum = 0
while n>0:
    rem = n%10
    fact = 1

    print("digits",rem)
    for i in range(1,rem+1):
        fact = fact*i
    print("factorial",fact)
    sum = sum + fact
    print("sum :",sum)
    n = n//10
if sum == temp:
    print(temp,"is strong number ")
else:
    print(temp,"not strong number ")
```

```
145
digits 5
factorial 120
sum : 120
digits 4
factorial 24
sum : 144
digits 1
factorial 1
sum : 145
145 is strong number
```

Q.17 Program to check given numberis perfect number or not in python ?

In [3]:

```
# A number which is equal to sum of all its factors except given number is known as perfect number
# n = 6
# fact of 6 1,2,3
# sum 1+2+3 = 6 so perfect number
# 6%1=0,652=0,6%3=0,6%4=2,6%5=1
```

In [8]:

```python
n=int(input("Enter Number :"))
sum = 0
for i in range(1,n):
    if n%i == 0:
        print(i,end=" ")
        sum = sum + i
if sum == n:
    print(n,"is a perfect number")
else:
    print(n,"is not a perfect number ")
```

```
Enter Number :6
1 2 3 6 is a perfect number
```

Q.18 Factors of agiven number ?

In [15]:

```python
n = int(input("Enter Number :"))
for i in range(1,n+1):
    if (n%i == 0):
        print("Factors of a number {}:".format(n),i)
```

```
Enter Number :8
Factors of a number 8: 1
Factors of a number 8: 2
Factors of a number 8: 4
Factors of a number 8: 8
```

Q.19 Addition of two Fraction in python ?

In [18]:

```python
a = int(input("Enter Number :"))
b = int(input("Enter Number :"))
c = int(input("Enter Number :"))
d = int(input("Enter Number :"))
result1 = (a*d)+(c*b)
result2 = (b*d)
print(result1/result2)
print("the result {}/{} result is :".format(result1,result2),result1/result2)
```

```
Enter Number :2
Enter Number :3
Enter Number :2
Enter Number :3
1.3333333333333333
the result 12/9 result is : 1.3333333333333333
```

In [ ]: