To check Perfect number or not

In [3]:
```
n=int(input("enter any number to check perfect number or not : "))
sum=0
for i in range(1,n):
    if n%i==0:
        sum=sum+i
        print(i)
if sum==n:
    print("{} is a perfect number".format(n))
else:
    print("{} is not a perfect number".format(n))
```

```
enter any number to check perfect number or not : 28
1
2
4
7
14
28 is a perfect number
```

To check number is Armstrong or Not

In [3]:
```
num=int(input("ente any number to check number is Armstrong or not: "))
sum=0
a=num
while a>0:
    rem=a%10
    sum=sum+rem**3
    a=a//10
   # print(sum)
if sum==num:
    print("{} is an Armstrong number ".format(num))
else:
    print("{} is not an Armstrong number".format(num))
```

```
ente any number to check number is Armstrong or not: 153
153 is an Armstrong number
```

To check no is strong number

In [ ]:
```
num=int(input("enter any number to check strong number : "))
s=0
fact=1
a=num
while a>0:
    rem=a%10
    for rem in range(1,rem+1):
        fact=fact*rem
        s=s+fact
        rem=rem+1
```

```
    num=num//10
    #sum=sum+fact
if s==num:
    print("{} is a strong number ".format(num))
else:
        print("{} is not a strong number".format(num))
```

```
enter any number to check strong number : 145
```

Didplay letter

""" P PY PYT PYTH PYTHO PYTHON """

In [2]:

```
arman= "PYTHON"
x=0
for i in arman:
    x+=1
    print(arman[0:x])
```

```
P
PY
PYT
PYTH
PYTHO
PYTHON
```

WAP to check number is PALINDROME or NOT.

In [6]:

```
num=int(input("Enter a number to check number is polindrome or not: "))
sum=0
a=num
while num>0:
    rem=num%10
    sum=sum*10+rem
    num=num//10
if a==sum:
    print("{} is a polindrome ".format(a))
else:
    print("{} is not a polindrome ".format(a))
```

```
Enter a number to check number is polindrome or not: 12321
12321 is a polindrome
```

In [ ]: