

```

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

```

```

Enter a number: 28
28 is a Perfect Number

```

```

def isPalindrome(x):
    return x == x[::-1]
x = input("enter a word: ")
y = isPalindrome(x)

```

```

if x:
    print("Yes")
else:
    print("No")

```

```

☞ enter a word: NAMAN
Yes

```

```

from math import factorial

```

```

n = 6
for i in range(n):
    for j in range(n-i+1):
        print(end=" ")

    for j in range(i+1):
        print(factorial(i)//(factorial(j)*factorial(i-j)), end=" ")
    print()

```

```
print()
```

```
1
1 1
1 2 1
1 3 3 1
1 4 6 4 1
1 5 10 10 5 1
```

```
def pangram(x):
    check=""
    small=x.lower()
    combine=small.replace(" ", "")
    for i in combine:
        if i in check:
            return False
        else:
            check+=i
    return True
print(pangram("The quick brown fox jumps over the lazy dog"))
```

```
False
```

```
items=[n for n in input().split('-')]
items.sort()
print('-'.join(items))
```

```
red-green-black-blue
black-blue-green-red
```

```
def student_data(student_id, **kwargs):
    print(f'\nStudent ID: {student_id}')
    if 'student_name' in kwargs:
        print(f'Student Name: {kwargs['student_name']}')

    if 'student_name' and 'student_class' in kwargs:
        print(f'\nStudent Name: {kwargs['student_name']}')
```

```
print(f'Student Class: {kwargs['student_class']}")
```

```
student_data(student_id='SV12', student_name='Jean Garner')
```

```
student_data(student_id='SV12', student_name='Jean Garner', student_class='V')
```

Student ID: SV12

Student Name: Jean Garner

Student ID: SV12

Student Name: Jean Garner

Student Name: Jean Garner

Student Class: V

```
class Student:
```

```
    pass
```

```
class Marks:
```

```
    pass
```

```
student1 = Student()
```

```
marks1 = Marks()
```

```
print(isinstance(student1, Student))
```

```
print(isinstance(marks1, Student))
```

```
print(isinstance(marks1, Marks))
```

```
print(isinstance(student1, Marks))
```

```
print("\nCheck whether the said classes are subclasses of the built-in object class c
```

```
print(issubclass(Student, object))
```

```
print(issubclass(Marks, object))
```

True

False

True

False

Check whether the said classes are subclasses of the built-in object class on

True

True



```
def findTriplets(arr, n):
    found = False
    for i in range(0, n-2):
        for j in range(i+1, n-1):
            for k in range(j+1, n):
                if (arr[i] + arr[j] + arr[k] == 0):
                    print(arr[i], arr[j], arr[k])
                    found = True
    if (found == False):
        print("does not exist")
arr = [-25, -10, -7, -3, 2, 4, 8, 10]
n = len(arr)
findTriplets(arr, n)
```

```
-10 2 8
-7 -3 10
```

class validity:

```
def f(str):

    a= ['()', '{}', '[]']

    while any(i in str for i in a):

        for j in a:

            str = str.replace(j, "")

    return not str
```

```
s = input("enter : ")
```

```
print(s, "-", "is balanced"
```

```
if validity.f(s) else "is Unbalanced")
```

```
enter : [{00} {00}]
```

```
[{00} {00}] - is balanced
```



0s

completed at 14:07

