

```
python [1] on : def pow(a,b):  
Type "c" to quit  
    c=a**b  
    return c  
RESTART  
ity.py  
enter t| def add(a,b):  
eligible:  
    c=a+b  
    return c  
RESTART  
py  
enter t| def sub(a,b):  
    c=a-b  
    return c  
RESTART  
py  
enter t| def multi(a,b):  
    c=a*b  
    return c  
RESTART  
py  
enter t| def div(a,b):  
    c=a/b  
    return c  
a=eval(input("enter the number a:"))  
b=eval(input("enter the number b:"))  
oper=eval(input("enter the operation pow/add/sub/multi/div:"))  
if (oper==pow):  
    o=pow(a,b)  
    print(o)  
elif(oper==add):  
    o=add(a,b)  
    print(o)  
elif(oper==sub):  
    o=sub(a,b)  
    print(o)  
elif(oper==multi):  
    o=multi(a,b)  
    print(o)  
elif(oper==div):  
    o=div(a,b)  
    print(o)  
else:  
    print("invalid input")
```

```
enter the operation pow/add/sub/multi/div:add
>>>
RESTART: C:\Users\sse\AppData\Local\Programs\Python\Python37-32\operation.py
enter the number a:5
enter the number b:0
enter the operation pow/add/sub/multi/div:add
5
```

```
>>>
RESTART: C:\Users\sse\AppData\Local\Programs\Python\Python37-32\operation.py
enter the number a:-3
enter the number b:3
enter the operation pow/add/sub/multi/div:sub
-9
```

```
>>>
RESTART: C:\Users\sse\AppData\Local\Programs\Python\Python37-32\operation.py
```

```
enter the number a:0
enter the number b:0
enter the operation pow/add/sub/multi/div:div
Traceback (most recent call last):
  File "C:\Users\sse\AppData\Local\Programs\Python\Python37-32\operation.py", li
```

```
ne 32, in <module>
    o=div(a,b)
  File "C:\Users\sse\AppData\Local\Programs\Python\Python37-32\operation.py", li
ne 14, in div
    c=a/b
```

```
ZeroDivisionError: division by zero
```

```
>>>
RESTART: C:\Users\sse\AppData\Local\Programs\Python\Python37-32\operation.py
enter the number a:0
enter the number b:0
enter the operation pow/add/sub/multi/div:add
0
```

```
>>>
RESTART: C:\Users\sse\AppData\Local\Programs\Python\Python37-32\operation.py
enter the number a:123
enter the number b:123
enter the operation pow/add/sub/multi/div:sub
0
```

Python - Python Application - Run - Run Script - C:\Users\91707

File Edit Format Run Options Window Help

```
n=int(input("no of numbers you need to enter:"))
prime=0
composite=0
for i in range(n):
    a=int(input("enter the value one by one:"))
    if(a==0 or a==1):
        print('neither prime nor composite')
    if(a>1):
        for j in range(2,a):
            if(a%j==0):
                print('composite number')
                composite+=1
                break
        else:
            print('prime number')
            prime+=1
            break
print("no.of composite numbers:",composite)
print("no.of prime numbers:",prime)
```

```
==== RESTART: C:\Users\sse\AppData\Local\Programs\Python\Python37-32\pri  
no of numbers you need to enter:6
```

```
enterthe value one by one:45  
prime number
```

```
enterthe value one by one:73  
prime number
```

```
enterthe value one by one:00  
neither prime nor composite
```

```
enterthe value one by one:50  
composite number
```

```
enterthe value one by one:67  
prime number
```

```
enterthe value one by one:44  
composite number
```

```
no.of composite numbers: 2  
no.of prime numbers: 3
```

```
>>>
```

```
==== RESTART: C:\Users\sse\AppData\Local\Programs\Python\Python37-32\pri  
no of numbers you need to enter:6
```

```
enterthe value one by one:33  
prime number
```

```
enterthe value one by one:41  
prime number
```

```
enterthe value one by one:52  
composite number
```

```
enterthe value one by one:61  
prime number
```

```
enterthe value one by one:73  
prime number
```

```
enterthe value one by one:90  
composite number
```

username.py - C:\Users\sse\AppData\Local\Programs\Python\Python37-32\username.py (3.7.0)

File Edit Format Run Options Window Help

Program to check username is valid

```
username1=input("enter the username")
username2=input("repeat the username")
if (username1==username2):
    print("username is valid")
else:
    print("username is invalid")
```



Python 3.7.0 Shell

File Edit Shell Debug Options Window Help



Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47)
[GCC 7.3.0] on win32

Type "copyright", "credits" or "license()" for more information

>>>

RESTART: C:\Users\sse\AppData\Local\Programs\Python\Py
enter the usernamesaveetha@789
repeat the usernamesaveetha@123
username is invalid

>>>



Windows

Edge

perfect number or not.py - C:/Users/sse/AppData/Local/Programs/Python/Python37-32/perfect number

File Edit Format Run Options Window Help

```
num=int(input("enter a number"))
sum_v=0
for i in range(1,num):
    if(num%i==0):
        sum_v=sum_v+i
if(num==sum_v):
    print("The number entered is a perfect number")
else:
    print("the number entered is no a perfect number")
```

```
Python 3.7.4 (tags/v3.7.4:9c7d3d3, Mar 10 2019, 09:23:59) [MSC v.1914 32 bit
 (AMD64) 64bit] on win32
Type "copyright", "credits" or "license()" for more information.
```

```
>>> RESTART: C:/Users/sse/AppData/Local/Programs/Python/Python37-32/perfect number or not.py
```

```
enter a number6
```

```
The number entered is a perfect number
```

```
>>>
```

```
>>> RESTART: C:/Users/sse/AppData/Local/Programs/Python/Python37-32/perfect number or not.py
```

```
enter a number26
```

```
the number entered is no a perfect number
```

```
>>>
```

```
>>> RESTART: C:/Users/sse/AppData/Local/Programs/Python/Python37-32/perfect number or not.py
```

```
enter a number17
```

```
the number entered is no a perfect number
```

```
>>>
```

```
>>> RESTART: C:/Users/sse/AppData/Local/Programs/Python/Python37-32/perfect number or not.py
```

```
enter a number143
```

```
the number entered is no a perfect number
```

```
>>>
```

```
>>> RESTART: C:/Users/sse/AppData/Local/Programs/Python/Python37-32/perfect number or not.py -
```

```
enter a number9
```

```
Traceback (most recent call last):
```

```
  File "C:/Users/sse/AppData/Local/Programs/Python/Python37-32/perfect number or not.py", line 1, in <module>
```

```
    num=int(input("enter a number"))
```

```
ValueError: invalid literal for int() with base 10: ''
```

```
>>>
```

```
>>> RESTART: C:/Users/sse/AppData/Local/Programs/Python/Python37-32/perfect number or not.py
```

```
enter a number-963
```

```
the number entered is no a perfect number
```

```
File Edit Format Run Options Window Help  
age=int(input("enter the age"))  
if (age<0):  
    print("invalid input")  
if (age>=18):  
    print("eligible for voting")  
else:  
    print("not eligible for voting")
```

Python 3.7.0 Shell

File Edit Shell Debug Options Window Help

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:41)

```
RESTART: C:\Users\sse\AppData\Local\Programs\Python\Python37-32\RESTART.py
enter the age25
eligible for voting
```

```
>>> RESTART: C:\Users\sse\AppData\Local\Programs\Python\Python37-32\RESTART.py
enter the age-18
invalid input
not eligible for voting
```

```
>>> RESTART: C:\Users\sse\AppData\Local\Programs\Python\Python37-32\RESTART.py
enter the age34.5
Traceback (most recent call last):
File "C:/Users/sse\AppData\Local\Programs\Python\Python37-32\RESTART.py", line 1, in <module>
    age=int(input("enter the age"))
ValueError: invalid literal for int() with
```