

fn 2.py - C:/Users/Dhilip/AppData/Local/Programs/Python/Python314/fn 2.py (3.14.2)

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```
#recursion function
'''def login():
    username='dhilip'
    password=123
    name=input('Enter your name:')
    passw=int(input('Enter your password:'))
    if name==username and passw==password:
        return 'login successful'
    else:
        return login()
print(login()) '''

#factorial
'''def fact(n):
    if n==1:
        return 1
    else:
        return n*fact(n-1)
print(fact(5)) '''
```

Ln: 14 Col: 3

IDLE Shell 3.14.2

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```
Python 3.14.2 (tags/v3.14.2:df79316, Dec 5 2025, 17:18:21) [MSC v.1944 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.

>>>
= RESTART: C:/Users/Dhilip/AppData/Local/Programs/Python/Python314/fn 2.py
Enter your name:dhilip
Enter your password:123
login successfully

>>>
= RESTART: C:/Users/Dhilip/AppData/Local/Programs/Python/Python314/fn 2.py
120

>>>
```

Activate Windows
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Ln: 11 Col: 1

Type here to search

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12:39 AM
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fn 2.py - C:/Users/Dhilip/AppData/Local/Programs/Python/Python314/fn 2.py (3.14.2)

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```
#factorial
'''def fact(n):
    if n==1:
        return 1
    else:
        return n*fact(n-1)
print(fact(5))'''

#map function
def fn(n):
    return n*n
a=[1,2,3,4,5]
print(tuple(map(fn,a)))

#filter function
def fn(n):
    return n%2==0
a=[1,2,3,4,5]
print(list(filter(fn,a)))
```

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```
>>> = RESTART: C:/Users/Dhilip/AppData/Local/Programs/Python/Python314/f
n 2.py
Enter your name:dhilip
Enter your password:123
login successfully

>>> = RESTART: C:/Users/Dhilip/AppData/Local/Programs/Python/Python314/f
n 2.py
120

>>> = RESTART: C:/Users/Dhilip/AppData/Local/Programs/Python/Python314/f
n 2.py
(1, 4, 9, 16, 25)
[2, 4]
```

```

task 1 function.py - C:/Users/Dhilip/AppData/Local/Programs/Python/Python314/task 1 functi...
File Edit Format Run Options Window Help
# 1.function in python
def sub(a,q):
    print(a-q)
sub(3,5)

# 2.function in defining and calling
def add():#defining
    a=3
    q=4
    print(a+q)
add() #calling

# 3.function in parameters and argument
def mut(a,q):#parameter
    return a*q
print(mut(3,5)) #argument

# 4.function in print and return
#print
def add(a,q):
    print(a+q)

```

```

IDLE Shell 3.14.2
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True
>>>
= RESTART: C:/Users/Dhilip/AppData/Local/Programs/Python/Python314/t
ask 1 function.py
-2
7
15
7
7
dhilip 21
('dhilip', 22, 2.3, True)
{'name': 'dhilip', 'age': 22, 'mar
k': 89}
7
120
3 6
True
mom
>>>

```

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```

task 1 function.py - C:/Users/Dhilip/AppData/Local/Programs/Python/Python314/task 1 functi...
File Edit Format Run Options Window Help

# 4.function in print and return
#print
def add(a,q):
    print(a+q)
add(3,4)
#retun
def add(a,q):
    return a+q
print(add(3,4))
# 5.default argument
def enroll(name='dhilip',age=21):
    print(name,',',age)
enroll()

# 6.*args and **kwargs
#*s
def reg(*s):
    print(s)
reg('dhilip',22,2.3,True)
**s

```

```

IDLE Shell 3.14.2
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>>>
= RESTART: C:/Users/Dhilip/AppData/Local/Programs/Python/Python314/t
ask 1 function.py
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{'name': 'dhilip', 'age': 22, 'mar
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7
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3 6
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mom
>>>

```

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```

task 1 function.py - C:/Users/Dhilip/AppData/Local/Programs/Python/Python314/task 1 functi...
File Edit Format Run Options Window Help
reg('dhilip', 22, 2.3, True)
def reg(**s):
    print(s)
reg(name='dhilip', age=22, mark=89)

# 7.lambda function
a=lambda a,q:a+q
print(a(3,4))

# 8.recursion function
def fact(n):
    if n==1:
        return 1
    else:
        return n*fact(n-1)
print(fact(5))

# 9.local and global variable
x=3 #global variable
def fact(n):

```

```

IDLE Shell 3.14.2
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= RESTART: C:/Users/Dhilip/AppData/Local/Programs/Python/Python314/t
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{'name': 'dhilip', 'age': 22, 'mar
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3 6
True
mom
>>>

```

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```

task 1 function.py - C:/Users/Dhilip/AppData/Local/Programs/Python/Python314/task 1 functi...
File Edit Format Run Options Window Help

# 9.local and global variable
x=3 #global variable
def fun():
    y=6 #local variable
    print(x,y)
fun()

# 10.a prime number
def prime(n):
    if n<=1:
        return False
    else:
        for i in range(2,n):
            if n%2==0:
                return False
            else:
                return True
print(prime(7))

# 11. reverse a string

```

```

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>>>
= RESTART: C:/Users/Dhilip/AppData/Local/Programs/Python/Python314/t
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('dhilip', 22, 2.3, True)
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120
3 6
True
mom
>>>

```

```
task 1 function.py - C:/Users/Dhilip/AppData/Local/Programs/Python/Python314/task 1 functi...
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fun()

# 10.a prime number
def prime(n):
    if n<=1:
        return False
    else:
        for i in range(2,n):
            if n%2==0:
                return False
            else:
                return True
print(prime(7))

# b.reverse a string

def reverse_string(s):
    return (s[::-1])
print(reverse_string('mom'))
```

```
IDLE Shell 3.14.2
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>>>
= RESTART: C:/Users/Dhilip/AppData/Local/Programs/Python/Python314/t
ask 1 function.py
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7
7
dhilip 21
('dhilip', 22, 2.3, True)
{'name': 'dhilip', 'age': 22, 'mar
k': 89}
7
120
3 6
True
mom
>>>
```