starting and ending number.py

Users > avipatel > starting and ending number.py > ...

```python
start = int(input("enter the start of range:"))
end = int(input("enter the end of range:"))

for num in range(start,end+1):
    if num % 2 == 0:
        print(num,end = "  ")
```

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Python - avipatel

```
/usr/local/bin/python3 "/Users/avipatel/starting and ending number.py"
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipatel/starting and ending number.py"
enter the start of range:10
enter the end of range:30
10  12  14  16  18  20  22  24  26  28  30  %
avipatel@Avis-MBP ~ %
```

greatest number.py ●

Users > avipatel > greatest number.py > ...

```python
num1 = int(input("enter first number:"))
num2 = int(input("enter second number:"))

if num1 >=num2:
    if num1 == num2:
     print("both number are equal.")
    else:
        print("first number is greater than the second number.")
else:
            print("second number is greater than the first number.")
```

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Python - avipatel

```
/usr/local/bin/python3 "/Users/avipatel/greatest number.py"
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipatel/greatest number.py"
enter first number:30
enter second number:80
second number is greater than the first number.
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipatel/greatest number.py"
enter first number:10
enter second number:10
both number are equal.
avipatel@Avis-MBP ~ %
```

factorial number.py

Users > avipatel > factorial number.py > ...

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

fac =1

for i in range(1,num+1):
    fac=fac*i
    print("factorial of",num,"is",fac)
```

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Python - avipatel

```
/usr/local/bin/python3 "/Users/avipatel/factorial number.py"
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipatel/factorial number.py"
enter a number: 5
factorial of 5 is 1
factorial of 5 is 2
factorial of 5 is 6
factorial of 5 is 24
factorial of 5 is 120
avipatel@Avis-MBP ~ %
```

swap 2 number using third variable.py

Users > avipatel > swap 2 number using third variable.py > ...

```python
a = int(input("please give first number a:"))
b = int(input("please give second number b:"))
tempvar=a
a=b
b=tempvar
print("after swapping")
print("value of a is:",a);
print("value of b is:",b);
```

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```
/usr/local/bin/python3 "/Users/avipatel/swap 2 number using third variable.py"
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipatel/swap 2 number using t
hird variable.py"
please give first number a:25
please give second number b:30
after swapping
value of a is: 30
value of b is: 25
avipatel@Avis-MBP ~ %
```

smallest number.py

Users > avipatel > smallest number.py > ...

```python
a = int(input("enter first number:"))
b= int(input("enter second number:"))
if a<b:
    print("smallest one is:",a)
elif a>b:
    print("smallest one is:",b)

```

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Python - avipatel

```
/usr/local/bin/python3 "/Users/avipatel/smallest number.py"
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipa
tel/smallest number.py"
enter first number:30
enter second number:5
smallest one is: 5
avipatel@Avis-MBP ~ %
```

calculate area of rectangle.py ●

Users > avipatel > calculate area of rectangle.py > ...

```python
w = float(input('enter the width of a rectangle :'))
h = float(input('enter the width of a rectangle :'))
Area = w*h
print("Area of Rectangle is: % 2f" %Area)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Python - avipatel

```
/usr/local/bin/python3 "/Users/avipatel/calculate area of rectangle.py"
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipatel/calculate area of rectangle.py"
enter the width of a rectangle :10
enter the width of a rectangle :12
Area of Rectangle is:  120.000000
avipatel@Avis-MBP ~ %
```

calculate area of square.py

Users > avipatel > calculate area of square.py > ...

```
1  side = 6
2  Area = side * side
3  print("Area of the square="+str(Area))
```

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Python - avipatel

```
/usr/local/bin/python3 "/Users/avipatel/calculate area of square.py"
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipatel/calculate area of square.py"
Area of the square=36
avipatel@Avis-MBP ~ %
```

calculate average of 5 number.py

Users > avipatel > calculate average of 5 number.py > ...

```python
a = int(input("enter first no"))
b = int(input("enter first no"))
c = int(input("enter first no"))
d = int(input("enter first no"))
e = int(input("enter first no"))
add = a+b+c+d+e
print("addition is ",add)
average = add /5
print("average =",average)
```

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Python - avipatel

```
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipatel/calculate average of 5 number.py"
enter first no10
enter first no20
enter first no30
enter first no40
enter first no50
addition is  150
average = 30.0
avipatel@Avis-MBP ~ %
```

calculate area of circle.py

Users > avipatel > calculate area of circle.py > ...

```python
PI = 3.14
r = float(input("Enter the radius of a circle:"))
area = PI * r * r
print("Area of circle = %.2f" % area)
```

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Python - avipatel

```
/usr/local/bin/python3 "/Users/avipatel/calculate area of circle.py"
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipatel/calculate area of circle.py"
Enter the radius of a circle:10
Area of circle = 314.00
avipatel@Avis-MBP ~ %
```

odd or even.py

Users > avipatel > odd or even.py > ...

```python
x =int(input("enter the number :"))

if(x%2==0):
    print(x,"is an even number")
else:
    print(x,"is an odd number")
```

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Python - avipatel

```
/usr/local/bin/python3 "/Users/avipatel/odd or even.py"
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipatel/odd or e
ven.py"
enter the number :7
7 is an odd number
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipatel/odd or e
ven.py"
enter the number :8
8 is an even number
avipatel@Avis-MBP ~ %
```

square less than 10.py ●

Users > avipatel > square less than 10.py > ...

```
1  n=1
2  while n<=10:
3
4      print("square of ",n,"is", n*n)
5      n=n+1
6
```

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Python - avipatel

```
/usr/local/bin/python3 "/Users/avipatel/square less than 10.py"
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipatel/square less than 10.py"
square of  1 is 1
square of  2 is 4
square of  3 is 9
square of  4 is 16
square of  5 is 25
square of  6 is 36
square of  7 is 49
square of  8 is 64
square of  9 is 81
square of  10 is 100
avipatel@Avis-MBP ~ %
```

leap year or not.py

Users > avipatel > leap year or not.py > ...

```python
year =int(input("enter year:"))

if year % 4 == 0 and year % 100 != 0:
    print(year,"is a leap year")
elif year % 100 == 0:
        print(year,"is not a leap year")
elif year % 400 == 0:
            print(year,"is a leap year")
else:
    print(year,"is not a leap year")

```

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Python - avipatel

```
/usr/local/bin/python3 "/Users/avipatel/leap year or not.py"
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipatel/leap year or not.py"
enter year:2004
2004 is a leap year
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipatel/leap year or not.py"
enter year:2019
2019 is not a leap year
avipatel@Avis-MBP ~ %
```

nested if else statement.py

Users > avipatel > nested if else statement.py > ...

```python
num = input("enter a number")
num = int(num)
if num>=0:
    if num>0:
        print("number is positive")
    else:
        print("number is zero")
else:
    print("number is negative")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Python - avipatel

```
/usr/local/bin/python3 "/Users/avipatel/nested if else statement.py"
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipatel/nested if else statement.py"
enter a number50
number is positive
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipatel/nested if else statement.py"
enter a number-145
number is negative
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipatel/nested if else statement.py"
enter a number0
number is zero
avipatel@Avis-MBP ~ %
```

zero,positive or negative.py

Users > avipatel > zero,positive or negative.py > ...

```python
num = float(input("Enter a number :"))
if num >= 0:
    if num == 0:
        print("zero")
    else:
        print("positive number")
else:
    print("negative number")

```

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Python - avipatel

```
/usr/local/bin/python3 "/Users/avipatel/zero,positive or negative.py"
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipatel/zero,p
ositive or negative.py"
Enter a number :0
zero
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipatel/zero,p
ositive or negative.py"
Enter a number :10
positive number
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipatel/zero,p
ositive or negative.py"
Enter a number :-20
negative number
avipatel@Avis-MBP ~ %
```

without taking third variable.py

Users > avipatel > without taking third variable.py > ...

```python
x = 5
y = 7

print("before swapping:")
print("value of x:",x,"and y:",y)

x,y = y,x

print("after swapping:")
print("value of x:",x,"and y:",y)
```

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Python - avipatel

```
/usr/local/bin/python3 "/Users/avipatel/without taking third variable.py"
avipatel@Avis-MBP ~ % /usr/local/bin/python3 "/Users/avipatel/without taking third variable.py"
before swapping:
value of x: 5 and y: 7
after swapping:
value of x: 7 and y: 5
avipatel@Avis-MBP ~ %
```