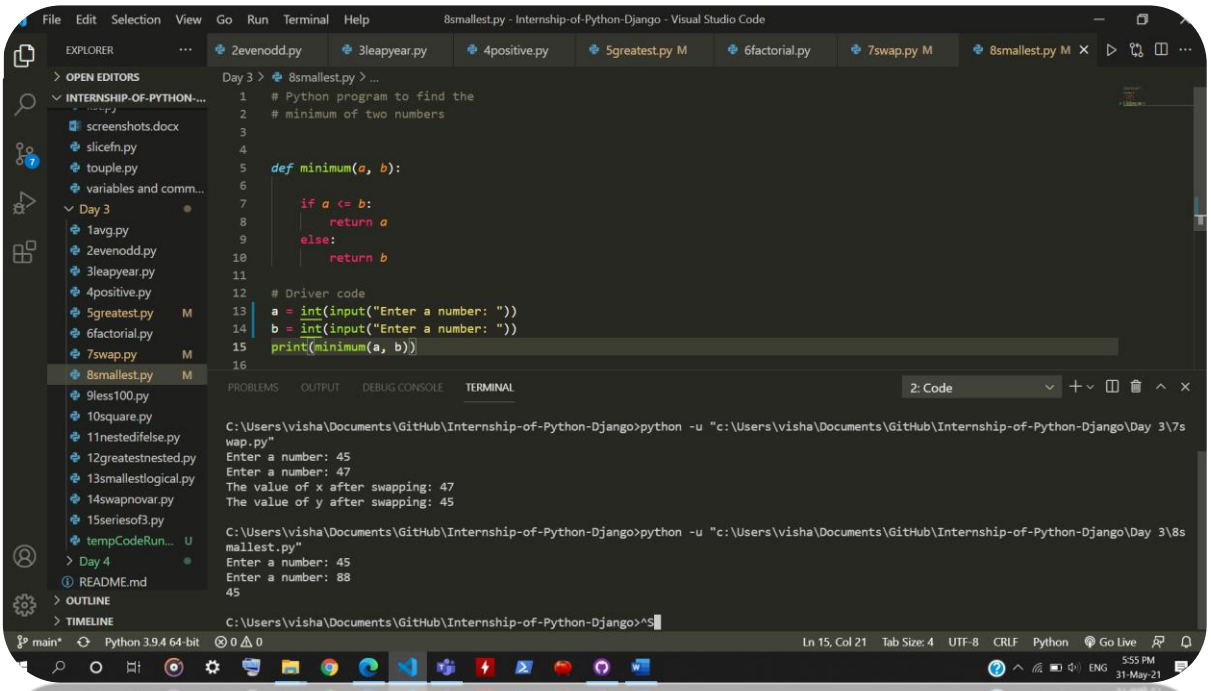
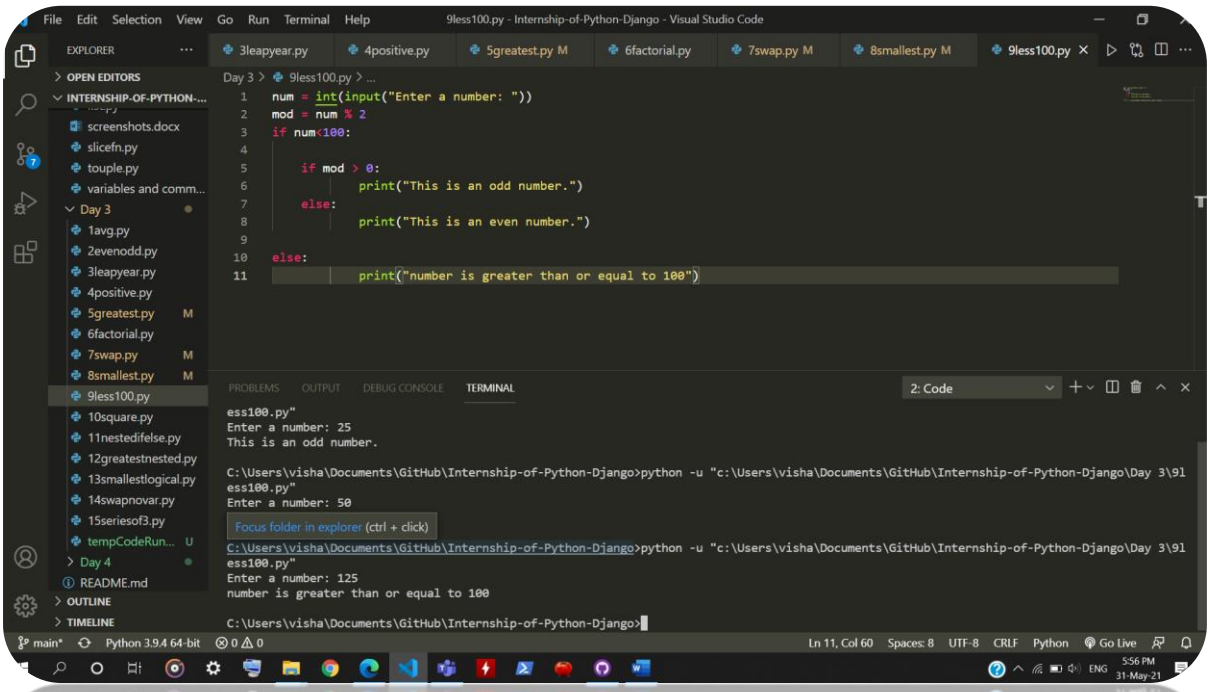
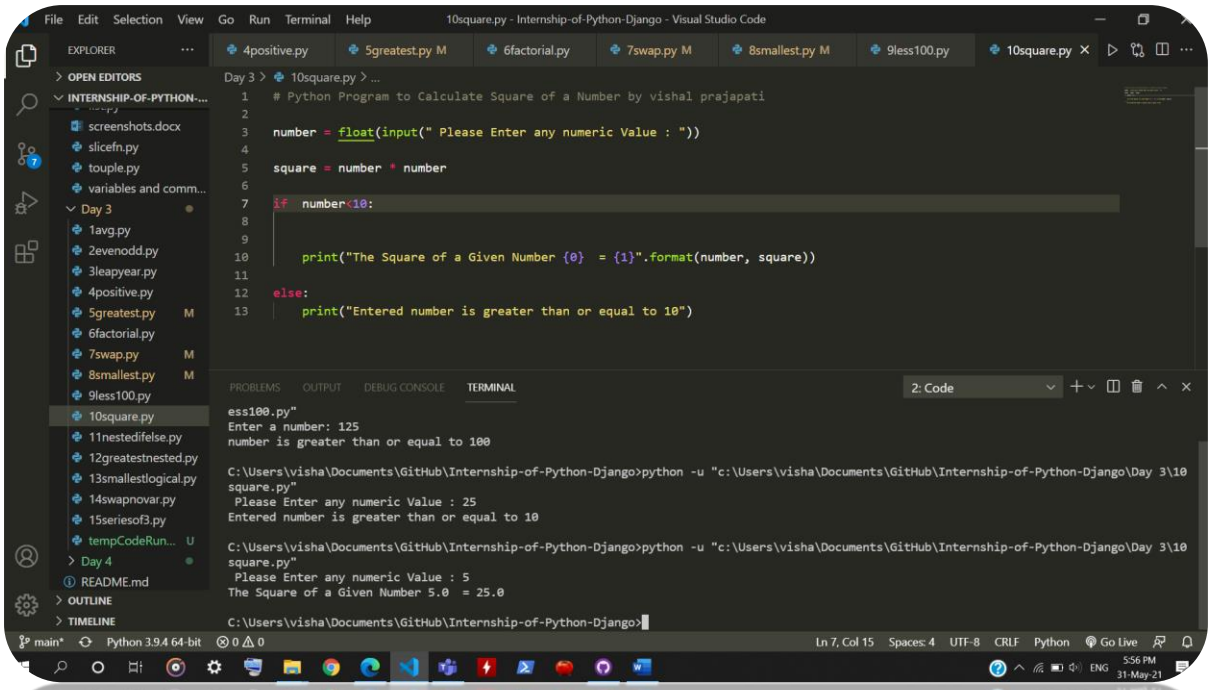
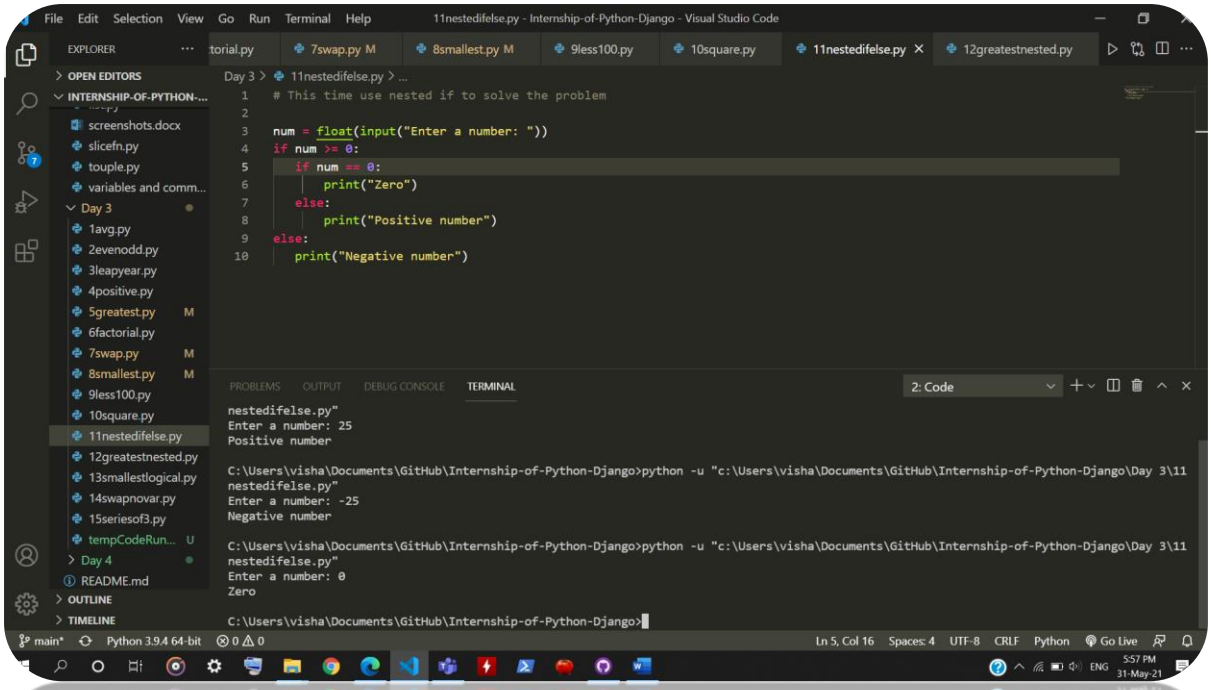
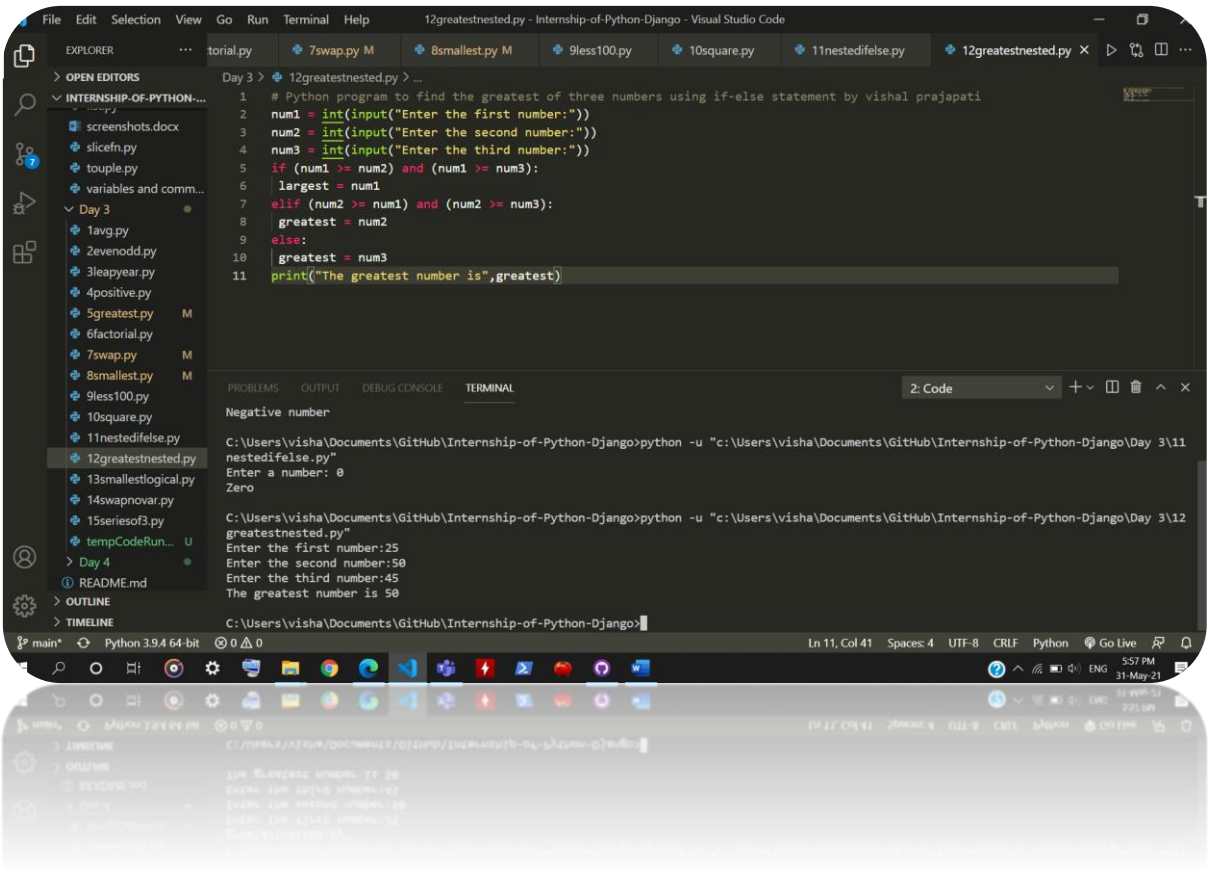
Task of day4: here is some complicated python programs to understand the basics of functions of python.

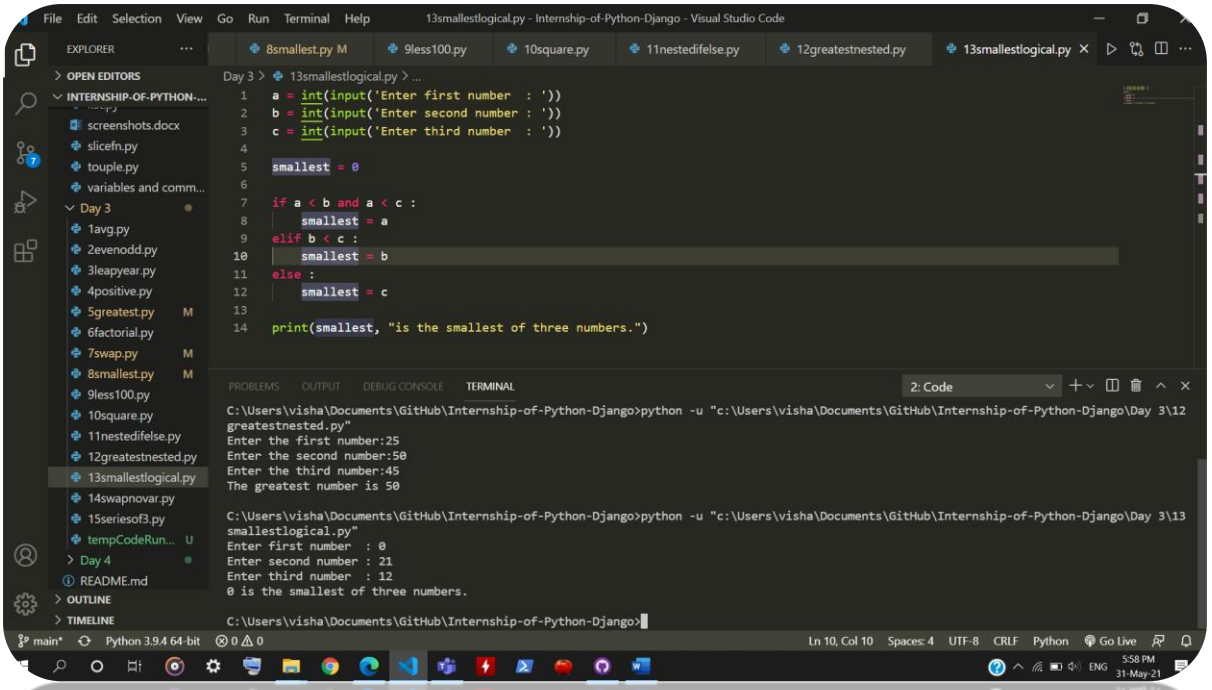


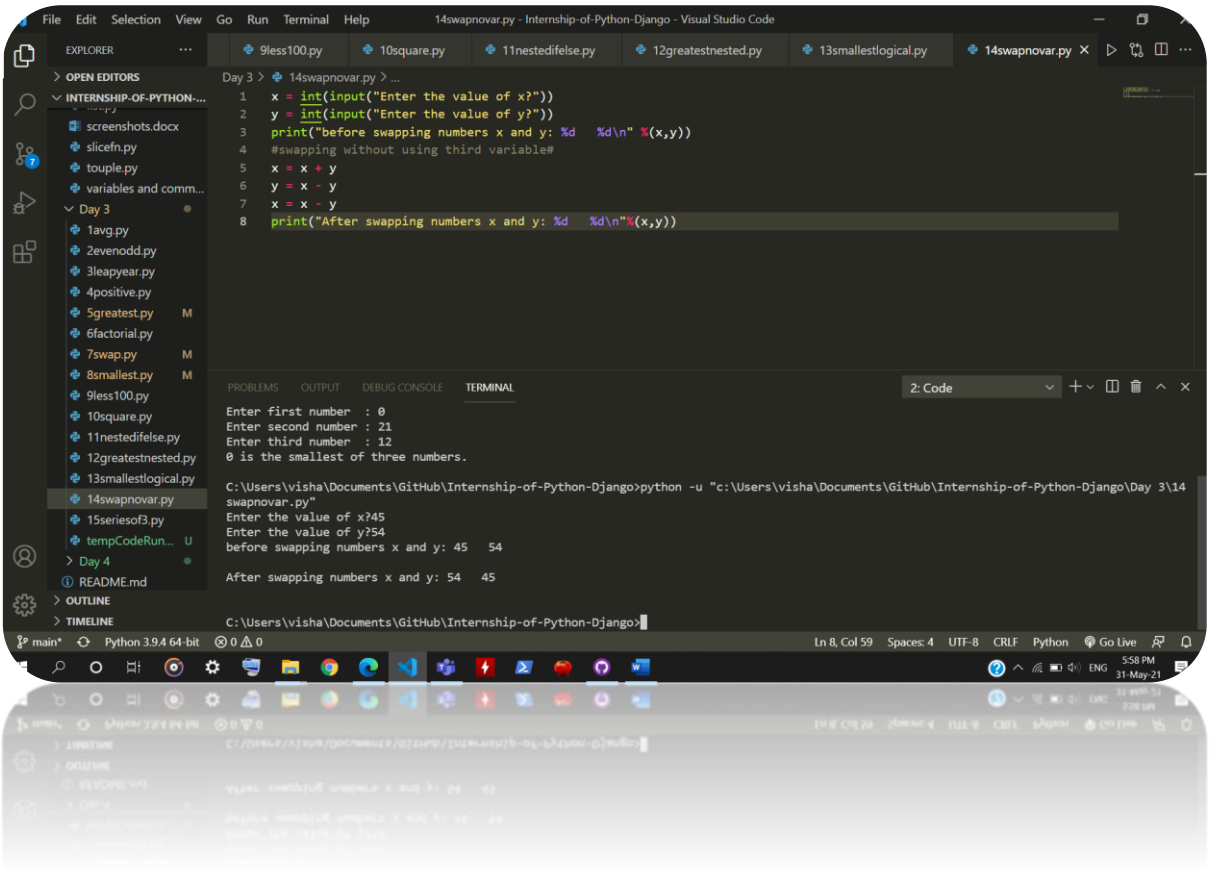


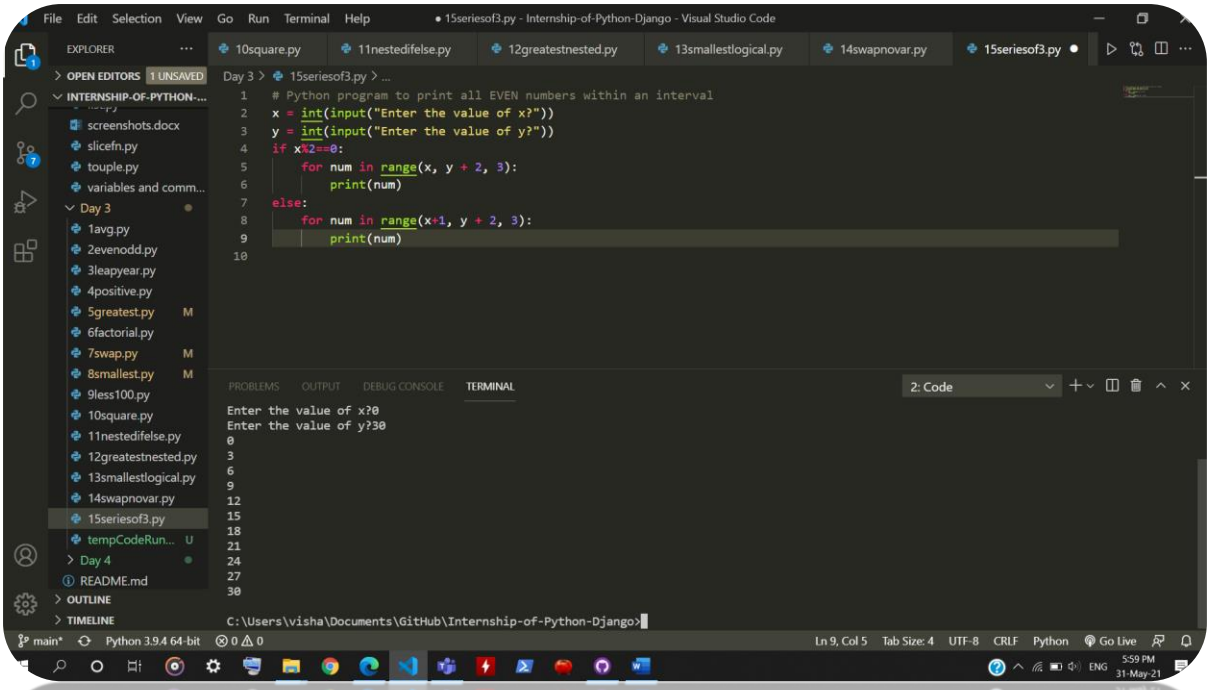

10square.py - Internship-of-Python-Django - Visual Studio Code
# Python Program to Calculate Square of a Number by vishal prajapati
number = float(input(" Please Enter any numeric Value : "))
square = number * number
if number<10:
print("The Square of a Given Number {0} = {1}".format(number, square))
else:
print("Entered number is greater than or equal to 10")
Enter a number: 125
number is greater than or equal to 100
Please Enter any numeric Value : 25
Entered number is greater than or equal to 10
Please Enter any numeric Value : 5
The Square of a Given Number 5.0 = 25.0


11nestedifelse.py - Internship-of-Python-Django - Visual Studio Code
# This time use nested if to solve the problem
num = float(input("Enter a number: "))
if num >= 0:
if num == 0:
print("Zero")
else:
print("Positive number")
else:
print("Negative number")
Enter a number: 25
Positive number
Enter a number: -25
Negative number
Enter a number: 0
Zero


12greatestnested.py - Internship-of-Python-Django - Visual Studio Code
# Python program to find the greatest of three numbers using if-else statement by vishal prajapati
num1 = int(input("Enter the first number:"))
num2 = int(input("Enter the second number:"))
num3 = int(input("Enter the third number:"))
if (num1 >= num2) and (num1 >= num3):
largest = num1
elif (num2 >= num1) and (num2 >= num3):
greatest = num2
else:
greatest = num3
print("The greatest number is",greatest)
Negative number
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\11nestedifelse.py"
Enter a number: 0
Zero
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\12greatestnested.py"
Enter the first number:25
Enter the second number:50
Enter the third number:45
The greatest number is 50
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>


13smallestlogical.py - Internship-of-Python-Django - Visual Studio Code
a = int(input('Enter first number : '))
b = int(input('Enter second number : '))
c = int(input('Enter third number : '))
smallest = 0
if a < b and a < c :
smallest = a
elif b < c :
smallest = b
else :
smallest = c
print(smallest, "is the smallest of three numbers.")
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\12greatestnested.py"
Enter the first number:25
Enter the second number:50
Enter the third number:45
The greatest number is 50
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\13smallestlogical.py"
Enter first number : 0
Enter second number : 21
Enter third number : 12
0 is the smallest of three numbers.
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>


14swapnovar.py - Internship-of-Python-Django - Visual Studio Code
x = int(input("Enter the value of x?"))
y = int(input("Enter the value of y?"))
print("before swapping numbers x and y: %d %d\n" %(x,y))
#swapping without using third variable#
x = x + y
y = x - y
x = x - y
print("After swapping numbers x and y: %d %d\n"%(x,y))
Enter first number : 0
Enter second number : 21
Enter third number : 12
0 is the smallest of three numbers.
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\14swapnovar.py"
Enter the value of x?45
Enter the value of y?54
before swapping numbers x and y: 45 54
After swapping numbers x and y: 54 45
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>


15seriesof3.py - Internship-of-Python-Django - Visual Studio Code
# Python program to print all EVEN numbers within an interval
x = int(input("Enter the value of x?"))
y = int(input("Enter the value of y?"))
if x%2==0:
for num in range(x, y + 2, 3):
print(num)
else:
for num in range(x+1, y + 2, 3):
print(num)
Enter the value of x?0
Enter the value of y?30
0
3
6
9
12
15
18
21
24
27
30
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>