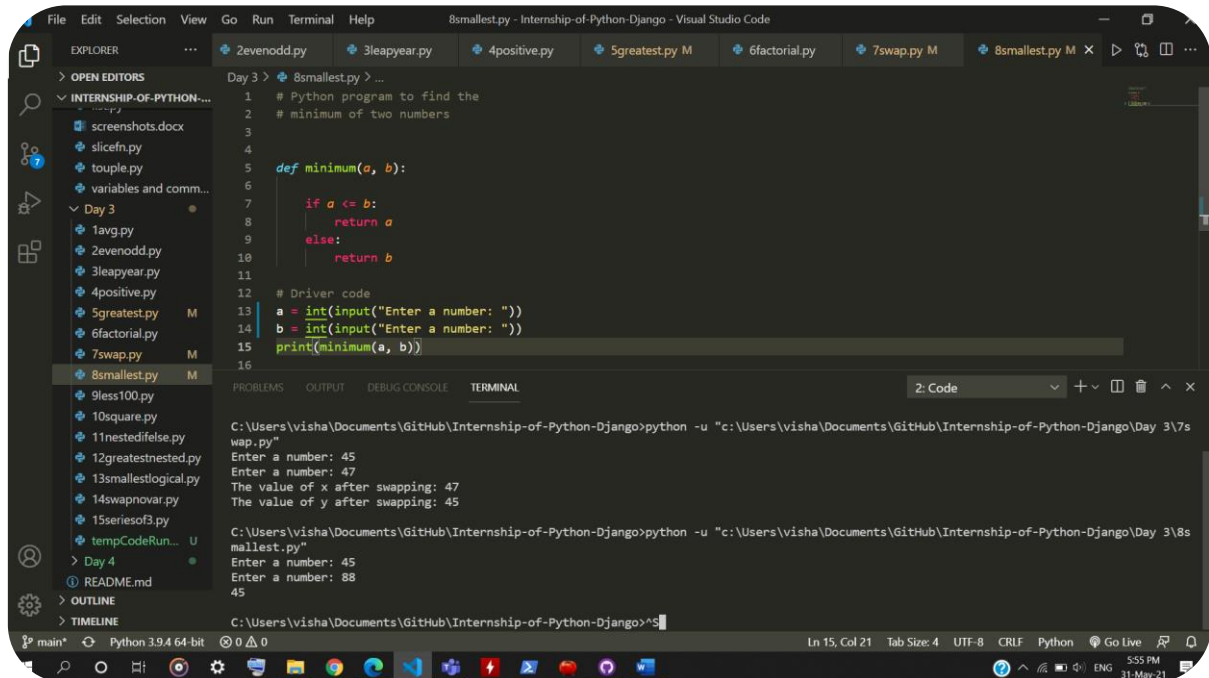


Task of day4: here is some complicated python programs to understand the basics of functions of python.



```
File Edit Selection View Go Run Terminal Help
8smallest.py - Internship-of-Python-Django - Visual Studio Code

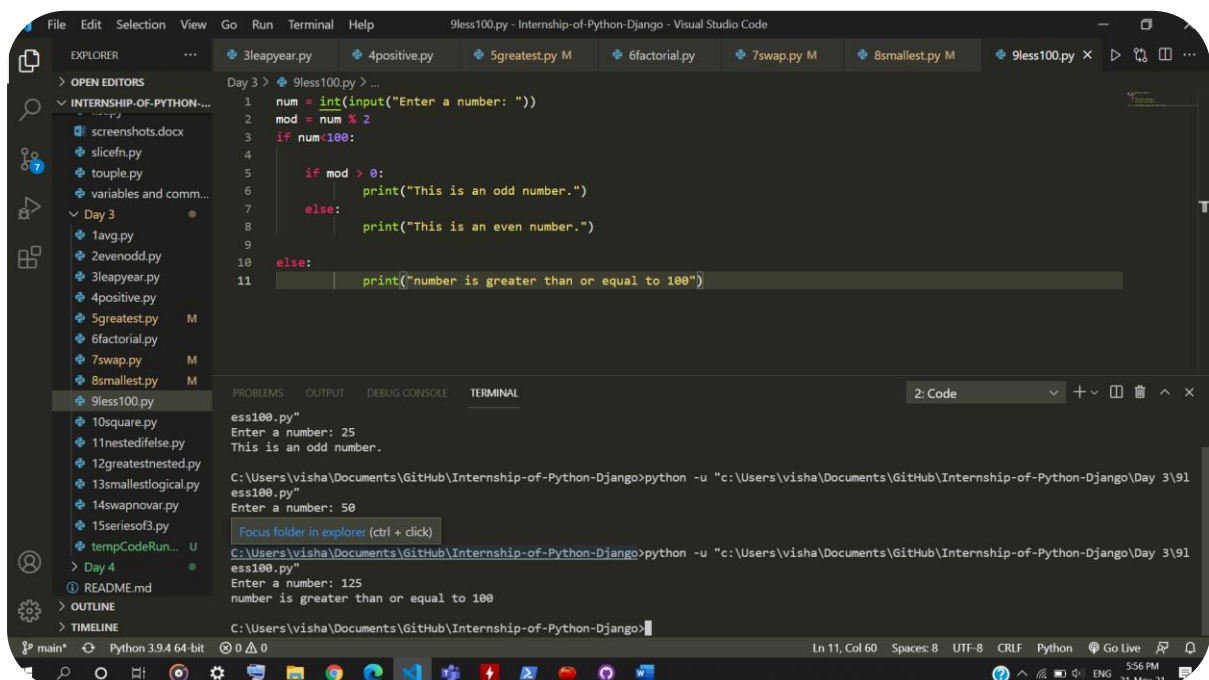
EXPLORER
> OPEN EDITORS
  2evenodd.py  3leapyear.py  4positive.py  5greatest.py M  6factorial.py  7swap.py M  8smallest.py M
  > INTERNSHIP-OF-PYTHON...
    screenshots.docx
    slicefn.py
    tuple.py
    variables and comm...
    > Day 3
      1avg.py
      2evenodd.py
      3leapyear.py
      4positive.py
      5greatest.py M
      6factorial.py
      7swap.py M
      8smallest.py M
      9less100.py
      10square.py
      11nestedifelse.py
      12greatestnested.py
      13smallestlogical.py
      14swapnovar.py
      15seriesof3.py
      tempCodeRun... U
    > Day 4
      > README.md
    > OUTLINE
    > TIMELINE

Day 3 > 8smallest.py > ...
1 # Python program to find the
2 # minimum of two numbers
3
4
5 def minimum(a, b):
6
7     if a <= b:
8         return a
9     else:
10        return b
11
12 # Driver code
13 a = int(input("Enter a number: "))
14 b = int(input("Enter a number: "))
15 print(minimum(a, b))
16

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
2: Code
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\7swap.py"
Enter a number: 45
Enter a number: 47
The value of x after swapping: 47
The value of y after swapping: 45

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\8smallest.py"
Enter a number: 45
Enter a number: 88
45

Ln 15, Col 21 Tab Size: 4 UTF-8 CRLF Python Go Live 5:55 PM 31-May-21
```



```
File Edit Selection View Go Run Terminal Help
9less100.py - Internship-of-Python-Django - Visual Studio Code

EXPLORER
> OPEN EDITORS
  3leapyear.py  4positive.py  5greatest.py M  6factorial.py  7swap.py M  8smallest.py M  9less100.py
  > INTERNSHIP-OF-PYTHON...
    screenshots.docx
    slicefn.py
    tuple.py
    variables and comm...
    > Day 3
      1avg.py
      2evenodd.py
      3leapyear.py
      4positive.py
      5greatest.py M
      6factorial.py
      7swap.py M
      8smallest.py M
      9less100.py
      10square.py
      11nestedifelse.py
      12greatestnested.py
      13smallestlogical.py
      14swapnovar.py
      15seriesof3.py
      tempCodeRun... U
    > Day 4
      > README.md
    > OUTLINE
    > TIMELINE

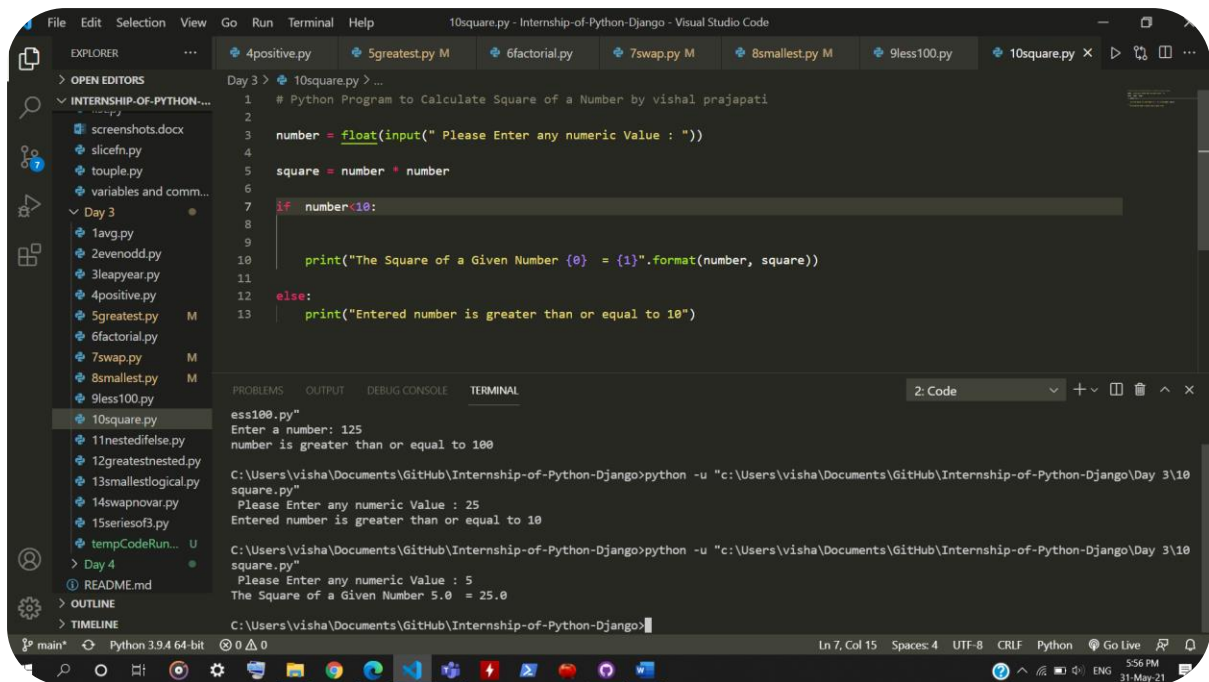
Day 3 > 9less100.py > ...
1 num = int(input("Enter a number: "))
2 mod = num % 2
3 if num < 100:
4
5     if mod > 0:
6         print("This is an odd number.")
7     else:
8         print("This is an even number.")
9
10 else:
11     print("number is greater than or equal to 100")

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
2: Code
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\9less100.py"
Enter a number: 25
This is an odd number.

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\9less100.py"
Enter a number: 50
This is an even number.

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\9less100.py"
Enter a number: 125
number is greater than or equal to 100

Ln 11, Col 60 Spaces: 8 UTF-8 CRLF Python Go Live 5:56 PM 31-May-21
```



```
File Edit Selection View Go Run Terminal Help 10square.py - Internship-of-Python-Django - Visual Studio Code
```

EXPLORER

- OPEN EDITORS
- INTERNSHIP-OF-PYTHON-...
- screenshots.docx
- slicefn.py
- touple.py
- variables and comm...
- Day 3
 - 1avg.py
 - 2evenodd.py
 - 3leapyear.py
 - 4positive.py
 - 5greatest.py M
 - 6factorial.py
 - 7swap.py M
 - 8smallest.py M
 - 9less100.py
 - 10square.py
 - 11nestedifelse.py
 - 12greatestnested.py
 - 13smallestlogical.py
 - 14swapnovar.py
 - 15seriesof3.py
- Day 4
- README.md
- OUTLINE
- TIMELINE

Day 3 > 10square.py > ...

```
1 # Python Program to Calculate Square of a Number by vishal prajapati
2
3 number = float(input(" Please Enter any numeric Value : "))
4
5 square = number * number
6
7 if number<10:
8
9
10     print("The Square of a Given Number {0} = {1}".format(number, square))
11
12 else:
13     print("Entered number is greater than or equal to 10")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

2: Code

ess100.py

Enter a number: 125

number is greater than or equal to 100

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\10square.py"

Please Enter any numeric Value : 25

Entered number is greater than or equal to 10

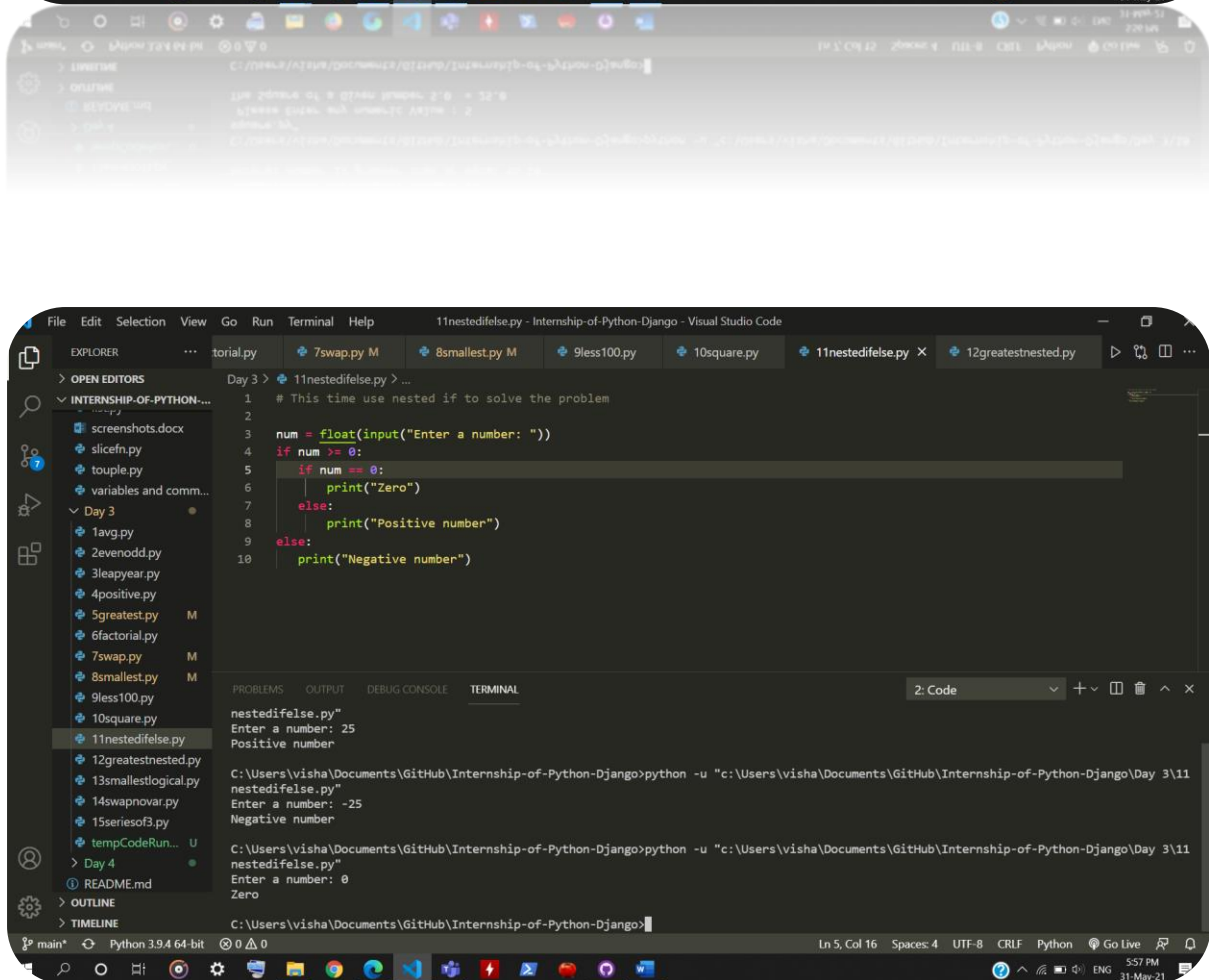
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\10square.py"

Please Enter any numeric Value : 5

The Square of a Given Number 5.0 = 25.0

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>

main Python 3.9.4 64-bit 0 0 0 Ln 7, Col 15 Spaces: 4 UTF-8 CRLF Python Go Live 5:56 PM 31-May-21



```
File Edit Selection View Go Run Terminal Help 11nestedifelse.py - Internship-of-Python-Django - Visual Studio Code
```

EXPLORER

- OPEN EDITORS
- INTERNSHIP-OF-PYTHON-...
- screenshots.docx
- slicefn.py
- touple.py
- variables and comm...
- Day 3
 - 1avg.py
 - 2evenodd.py
 - 3leapyear.py
 - 4positive.py
 - 5greatest.py M
 - 6factorial.py
 - 7swap.py M
 - 8smallest.py M
 - 9less100.py
 - 10square.py
 - 11nestedifelse.py
 - 12greatestnested.py
 - 13smallestlogical.py
 - 14swapnovar.py
 - 15seriesof3.py
- Day 4
- README.md
- OUTLINE
- TIMELINE

Day 3 > 11nestedifelse.py > ...

```
1 # This time use nested if to solve the problem
2
3 num = float(input("Enter a number: "))
4 if num >= 0:
5     if num == 0:
6         print("Zero")
7     else:
8         print("Positive number")
9 else:
10     print("Negative number")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

2: Code

nestedifelse.py

Enter a number: 25

Positive 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: -25

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>

main Python 3.9.4 64-bit 0 0 0 Ln 5, Col 16 Spaces: 4 UTF-8 CRLF Python Go Live 5:57 PM 31-May-21

The screenshot shows the Visual Studio Code interface with the file explorer on the left displaying a project named 'INTERNSHIP-OF-PYTHON-DJANGO'. The file '12greatestnested.py' is selected. The main editor displays the following Python code:

```
1 # Python program to find the greatest of three numbers using if-else statement by vishal prajapati
2 num1 = int(input("Enter the first number:"))
3 num2 = int(input("Enter the second number:"))
4 num3 = int(input("Enter the third number:"))
5 if (num1 >= num2) and (num1 >= num3):
6     largest = num1
7 elif (num2 >= num1) and (num2 >= num3):
8     greatest = num2
9 else:
10    greatest = num3
11 print("The greatest number is",greatest)
```

The terminal at the bottom shows the execution of the program:

```
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
```

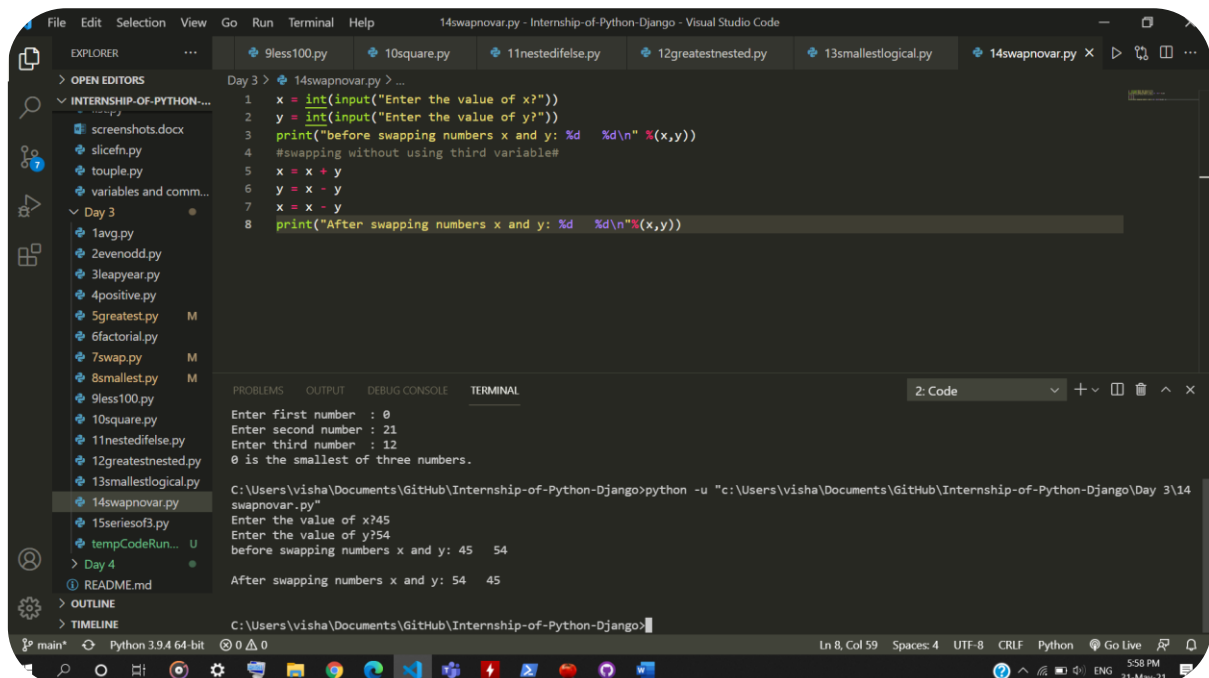
The screenshot shows the Visual Studio Code interface with the file explorer on the left displaying a project named 'INTERNSHIP-OF-PYTHON-DJANGO'. The file '13smallestlogical.py' is selected. The main editor displays the following Python code:

```
1 a = int(input('Enter first number : '))
2 b = int(input('Enter second number : '))
3 c = int(input('Enter third number : '))
4
5 smallest = 0
6
7 if a < b and a < c :
8     smallest = a
9 elif b < c :
10    smallest = b
11 else :
12    smallest = c
13
14 print(smallest, "is the smallest of three numbers.")
```

The terminal at the bottom shows the execution of the program:

```
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.
```



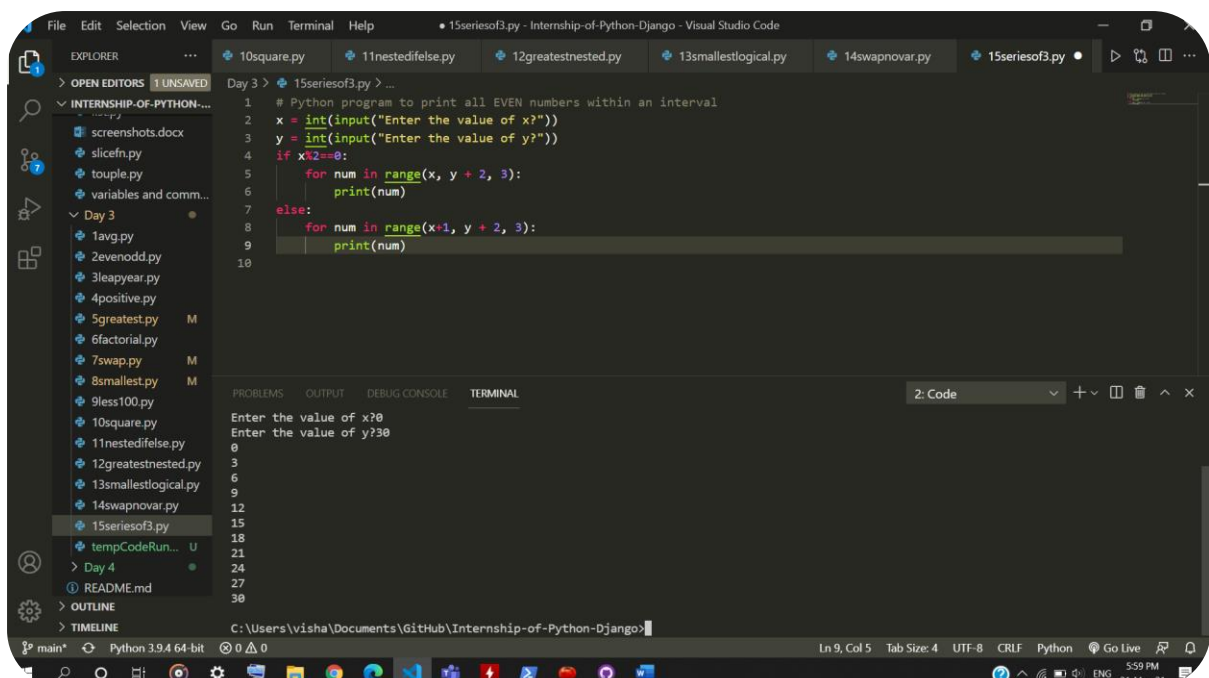
```
File Edit Selection View Go Run Terminal Help
14swapnovar.py - Internship-of-Python-Django - Visual Studio Code

EXPLORER
OPEN EDITORS
INTERNSHIP-OF-PYTHON-...
screenshots.docx
slicefn.py
tuple.py
variables and comm...
Day 3
1avg.py
2evenodd.py
3leapyear.py
4positive.py
5greatest.py M
6factorial.py
7swap.py M
8smallest.py M
9less100.py
10square.py
11nestedifelse.py
12greatestnested.py
13smallestlogical.py
14swapnovar.py
15seriesof3.py
tempCodeRun... U
Day 4
README.md
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TIMELINE

Day 3 > 14swapnovar.py > ...
1 x = int(input("Enter the value of x?"))
2 y = int(input("Enter the value of y?"))
3 print("before swapping numbers x and y: %d %d\n" %(x,y))
4 #swapping without using third variable#
5 x = x + y
6 y = x - y
7 x = x - y
8 print("After swapping numbers x and y: %d %d\n"%(x,y))

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
2: Code
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\14
swapnovar.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>
```



```
File Edit Selection View Go Run Terminal Help
15seriesof3.py - Internship-of-Python-Django - Visual Studio Code

EXPLORER
OPEN EDITORS
INTERNSHIP-OF-PYTHON-...
screenshots.docx
slicefn.py
tuple.py
variables and comm...
Day 3
1avg.py
2evenodd.py
3leapyear.py
4positive.py
5greatest.py M
6factorial.py
7swap.py M
8smallest.py M
9less100.py
10square.py
11nestedifelse.py
12greatestnested.py
13smallestlogical.py
14swapnovar.py
15seriesof3.py
tempCodeRun... U
Day 4
README.md
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TIMELINE

Day 3 > 15seriesof3.py > ...
1 # Python program to print all EVEN numbers within an interval
2 x = int(input("Enter the value of x?"))
3 y = int(input("Enter the value of y?"))
4 if x%2==0:
5     for num in range(x, y + 2, 3):
6         print(num)
7 else:
8     for num in range(x+1, y + 2, 3):
9         print(num)
10

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
2: Code
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>
```