

assignments func part2 > 1 func inside func.py > ...

```
1  # 1 write a python program to access a function inside a function.
2
3  def greater(a,b):
4      if a > b:
5          return a
6      return b
7
8  def greatest(a,b,c):
9      if a > b and a > c:
10         return a
11     elif b > a and b > c:
12         return c
13     else:
14         return c
15
16 #function inside function
17
18 def new_greatest(a,b,c):
19     bigger = greater(a,b)
20     return greater(bigger, c)
21
22 print(new_greatest(100,200,300))
23
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Code + ▼ □ ✕ ^ X

```
PS C:\Users\popso\Desktop\javascript> python -u "c:\Users\popso\Desktop\javascript\assignments func part2\1 func inside func.py"
300
PS C:\Users\popso\Desktop\javascript> █
```

assignments func part2 > 2 square of numbers.py > ...

```
1  # 2. a python function to create and print a list where the values are square of numbers between 1 and 30
2
3  def values():
4      l = list()
5
6      for i in range (1,30):
7          l.append(i**2)
8
9      print(l)
10
11 values()
12
```

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Code + ▼ □ ✕ ^ X

```
PS C:\Users\popso\Desktop\javascript> python -u "c:\Users\popso\Desktop\javascript\assignments func part2\2 square of numbers.py"
[1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144, 169, 196, 225, 256, 289, 324, 361, 400, 441, 484, 529, 576, 625, 676, 729, 784, 841]
PS C:\Users\popso\Desktop\javascript> █
```

assignments func part2 > 3 new name func.py > ...

```
1  # 3. assign a different name to function and call it through the new name.
2
3  def student1(name, age):
4      |   print(name,age)
5
6  student1('john cena', 25)
7
8  #assign new name
9
10 student2 = student1
11 #calling using a new name
12 student2('rock', 25)
```

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```
PS C:\Users\popso\Desktop\javascript> python -u "c:\Users\popso\Desktop\javascript\assignments func part2\3 new name func.py"
john cena 25
rock 25
PS C:\Users\popso\Desktop\javascript> █
```



assignments func part2 > list of even numbers.py > ...

```
1  # 4. a python list of all the even numbers between 4 to 30.
2
3  def even():
4      l = []
5      a = range(4,30)
6      for i in a:
7          if i % 2 == 0:
8              print(i)
9              l.append(i)
10 print(even())
11
12
13
14
```

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> Code + ▾



```
4
6
8
10
12
14
16
18
20
22
24
26
28
None
PS C:\Users\popso\Desktop\javascript>
```

assignments func part2 > num 5 num as arg and return sum.py > ...

```
1  #5 . func that accepts two num as arguments and return the sum.
2
3  def add (x,y):
4      result = x + y
5      print (x, "+", y, "=", result)
6
7  n1 = int(input("enter the first num: "))
8  n2 = int (input("enter the second num: "))
9
10 add(n1,n2)
```

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Code + ▼ □ ✕ ^ X

```
PS C:\Users\popso\Desktop\javascript> python -u "c:\Users\popso\Desktop\javascript\assignments func part2\num 5 num as arg and retur
n sum.py"
enter the first num: 10
enter the second num: 10
10 + 10 = 20
PS C:\Users\popso\Desktop\javascript> █
```

assignments func part2 > 6 values as para.py > ...

```
1  # 6. python function that accepts different values as parameters and returns a list.
2
3  def multiple():
4      operation = "sum"
5      total = 4+6
6      operation2 = "subtract"
7      after_sub = 6-6
8      return [operation, total, operation2, after_sub]
9
10 values = multiple()
11
12 print(values)
```

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Code + ▼ □ □ ✕

```
PS C:\Users\popso\Desktop\javascript> python -u "c:\Users\popso\Desktop\javascript\assignments func part2\6 values as para.py"
['sum', 10, 'subtract', 0]
PS C:\Users\popso\Desktop\javascript> █
```



assignments func part2 > 7 func return tuple.py > ...

```
1 # 7. python function that returns a tuple.
2
3 def person():
4     return "popson", 25, "wayanad" #you can return a tuple by separating each item with a comma
5
6     #“It is actually the comma which makes a tuple, not the parentheses,”
7
8
9 print(person())
10
```

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Code + ▼ □ ✕

```
PS C:\Users\popso\Desktop\javascript> python -u "c:\Users\popso\Desktop\javascript\assignments func part2\7 func return tuple.py"
('popson', 25, 'wayanad')
PS C:\Users\popso\Desktop\javascript> █
```



assignments func part2 > 8 .2value sum sub mult.py > ...

```
1  #8 define a function that accepts 2 values and return its sum , subtraction and multiplication.
2
3  def products(a,b):
4      return a+b, a-b, a*b
5
6  x =int( input('enter the first num: '))
7  y =int( input('enter the second num: '))
8
9  sum, subtr,multiply = products(x,y)
10 print("sum of two num is ", sum)
11 print("subt result of two num ", subtr)
12 print("after multiplication ", multiply)
```

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Code + ▼ □ ✕

PS C:\Users\popso\Desktop\javascript> python -u "c:\Users\popso\Desktop\javascript\assignments func part2\8 .2value sum sub mult.py"

```
enter the first num: 8
enter the second num: 10
sum of two num is 18
subt result of two num -2
after multiplication 80
PS C:\Users\popso\Desktop\javascript> █
```



assignments func part2 > 9.roll number.py > student

```
1  # 9. define a function that accepts roll number and returns whether the student is present or not.
2
3  def student(roll):
4      x = [1,3,5,7,9,22] #Use a list to store sample roll num
5      if roll in x:
6          print(f"roll num {roll} is present")
7      else:
8          print(f"roll num {roll} is absent")
9  roll = int(input("enter roll no: "))
10 student(roll)
```

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```
PS C:\Users\popso\Desktop\javascript> python -u "c:\Users\popso\Desktop\javascript\assignments func part2\9.roll number.py"
enter roll no: 12
roll num 12 is absent
PS C:\Users\popso\Desktop\javascript> python -u "c:\Users\popso\Desktop\javascript\assignments func part2\9.roll number.py"
enter roll no: 5
roll num 5 is present
PS C:\Users\popso\Desktop\javascript> █
```

assignments func part2 > 10.func vowels and consonant.py > count

```
1  # 10. define a func which counts vowels and consonant in a word.
2
3  def count(val):
4      vov = 0
5      con = 0
6      for i in range(len(val)):
7          if val[i] in ['a','e','i','o','u']:
8              vov = vov+1
9          else:
10             con = con+1
11
12     print('count of vowels is ',vov)
13     print('count of consonant is', con)
14
15     x = input("enter the value: ")
```

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```
PS C:\Users\popso\Desktop\javascript> python -u "c:\Users\popso\Desktop\javascript\assignments func part2\10.func vowels and consonant.py"
enter the value: popson
count of vowels is 2
count of consonant is 4
PS C:\Users\popso\Desktop\javascript> █
```

assignments func part2 > 11.return even or odd .py > ...

```
1  #11 . define a function that accepts a number and returns whether the number is even or odd.
2
3  def even_odd(num):
4      if num % 2 == 0:
5          print("entered num is even")
6      else:
7          print("entered num is odd")
8  x = int(input("enter your num "))
9  even_odd(x)
10
```

```
PS C:\Users\popso\Desktop\javascript> python -u "c:\Users\popso\Desktop\javascript\assignments func part2\11.return even or odd .py"
enter your num 10
entered num is even
PS C:\Users\popso\Desktop\javascript> python -u "c:\Users\popso\Desktop\javascript\assignments func part2\11.return even or odd .py"
enter your num 7
entered num is odd
PS C:\Users\popso\Desktop\javascript> █
```

assignments func part2 > 12. accepts 3 values and return .py > ...

```
1  # 12. define a function in python that accepts 3 values and returns the maximum of three numbers.
2
3  def max(a,b,c):
4      if a>b and a>c:
5          print(f"{a} is max num among 3")
6      elif b>a and b>c:
7          print(f"{b} is max among 3")
8      else:
9          print(f"{c} is max among 3")
10
11  max(10,20,30)
12
13
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Code + ▼ □ ✕ ^ X

```
PS C:\Users\popso\Desktop\javascript> python -u "c:\Users\popso\Desktop\javascript\assignments func part2\12. accepts 3 values and re
turn .py"
```

```
30 is max among 3
```

```
PS C:\Users\popso\Desktop\javascript> □
```

