THE "RETURN" OPERATOR: THE MAIN MEANS OF RETURNING RESULTS IN THE PYTHON PROGRAMMING LANGUAGE

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Abstract

This article programming "return" operator in languages from the function result in return role and importance The article discusses the concept of " return" general definition , various programming languages (C++, Python, JavaScript, Java and others) usage , practical application and examples Also , from " return" of use main principles , its function inside tasks and programmers for useful tips place received . Article programming studying new leaders and experienced programmers for useful source as service does .

Introduction

Programming in the world functions of the program main structural from parts They are known tasks will do and often result as value or information returns . In this process, the "return" operator important role plays . The word " Return" English " return " in Turkish means and function the result of the program other to the part transmission for This is used . The article is about the "return" operator. in programming its place , its syntax , different in languages features and practical

application surrounding illuminates . Article programming those who are learning for comfortable manual as working issued then simple from examples pull practical to projects many information is brought .

"Return" operator and from the function the result return

The "Return" operator definition

"Return" operator from the function result as value , object or information return for is used . Function own work when finished , press "return" taken result him/her called to the code This process is programming modular structure provides and the code again use opportunity gives .

Python programming return operator in the language from the function the value return for is used . The following main to aspects attention give :
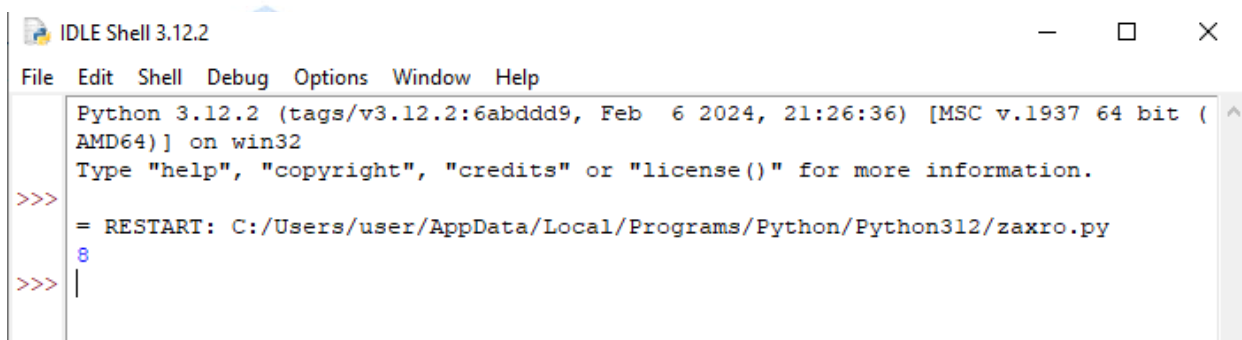
1. What is return? does it ?

Function when done , via return the result outside transmits .

from return next codes not done .

For example , two of the thigh the assembly calculating simple function seeing we get (in Python):

```
*zaxro.py - C:/Users/user/AppData/Local/Programs/Python/Python312/zaxro.py (3.12.2)*
File   Edit   Format   Run   Options   Window   Help
def yigindi(a, b):
    return a + b

natija = yigindi(5, 3)
print(natija)
```

In this example gathered function takes parameters a and b acceptance does , their the assembly counts and via return the result Returns . Result result to the variable is stored and will be printed later .
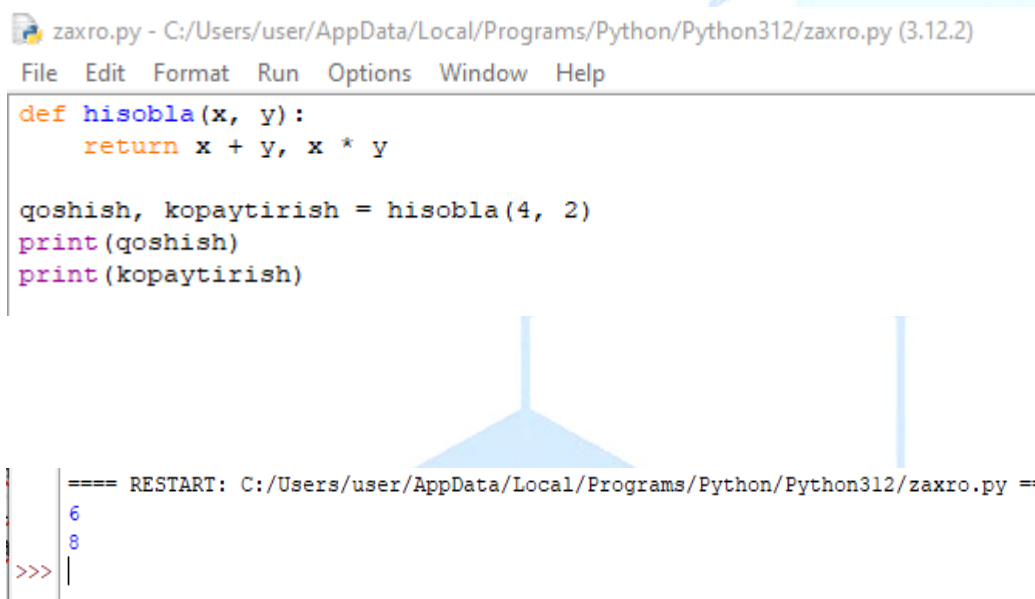
```
IDLE Shell 3.12.2                                              —    □    ×
File  Edit  Shell  Debug  Options  Window  Help
     Python 3.12.2 (tags/v3.12.2:6abddd9, Feb  6 2024, 21:26:36) [MSC v.1937 64 bit (
     AMD64)] on win32
     Type "help", "copyright", "credits" or "license()" for more information.
>>>
     = RESTART: C:/Users/user/AppData/Local/Programs/Python/Python312/zaxro.py
     8
>>> |
```

" Return" main tasks :

- The result of the program other to the part transmission .

- Function from the deadline before completion .

- Terms and conditions based values return

2. Several the value return :

```
zaxro.py - C:/Users/user/AppData/Local/Programs/Python/Python312/zaxro.py (3.12.2)
File  Edit  Format  Run  Options  Window  Help
def hisobla(x, y):
    return x + y, x * y

qoshish, kopaytirish = hisobla(4, 2)
print(qoshish)
print(kopaytirish)
```

```
==== RESTART: C:/Users/user/AppData/Local/Programs/Python/Python312/zaxro.py ===
6
8
>>> |
```

3. return and None:

If return is not specified , the function returns None :

zaxro.py - C:/Users/user/AppData/Local/Programs/Python/Python312/zaxro.py (3.12.2)

File   Edit   Format   Run   Options   Window   Help

```python
def hech_narsa():
    pass


print(hech_narsa())
```

```
= RESTART: C:/Users/user/AppData/Local/Programs/Python/Python312/zaxro.py
None
1
1
```

4. with return conditional cases :

```
zaxro.py - C:/Users/user/AppData/Local/Programs/Python/Python312/zaxro.py (3.12.2)
File   Edit   Format   Run   Options   Window   Help

def musbatmi(x):
    if x > 0:
        return "musbat"
    return "manfiy yoki nol"


print(musbatmi(-3))




==== RESTART: C:/Users/user/AppData/Local/Programs/Python/Python312/zaxro.py ===
manfiy yoki nol
1
1
|
```

Practical Example : Calculator

Below is the " return" used without simple calculator function is quoted :

```
zaxro.py - C:/Users/user/AppData/Local/Programs/Python/Python312/zaxro.py (3.12.2)
File   Edit   Format   Run   Options   Window   Help

def kalkulyator(amal, a, b):
    if amal == "+":
        return a + b
    elif amal == "-":
        return a - b
    elif amal == "*":
        return a * b
    elif amal == "/":
        if b != 0:
            return a / b
        else:
            return "Nolga bo'lish mumkin emas"
    else:
        return "Noto'g'ri amal"

print(kalkulyator("+", 10, 5))
print(kalkulyator("/", 10, 0))
```

```
>>>
    ==== RESTART: C:/Users/user/AppData/Local/Programs/Python/Python312/zaxro.py ===
    15
    Nolga bo'lish mumkin emas
>>> |
```

Conclusion

"Return" operator programming inseparable part from functions result return and their performance in management important role Plays . Various programming " return" in languages syntax and application difference although it does , its main goal – result transmission and the code simplification – does not change . This article via " return" various aspects , practical examples and use rules was highlighted . Programmers from " return" right use through effective and understandable code their writings possible .

Adabiyotlar

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