

Quiz 08

Due Mar 25 at 10pm**Points** 10**Questions** 5**Time Limit** None

Instructions

Answer the following questions in your own words. Do NOT simply cut and paste the information from the slides, the web, or any other source. You will receive a score of 0 if you copy the prose from any source.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	108 minutes	10 out of 10

Score for this quiz: **10** out of 10

Submitted Mar 25 at 6:53pm

This attempt took 108 minutes.

Question 1

2 / 2 pts

Given

```
def foo(x, use_max = True, *values):  
    return x + (min(values) if use_max else max(values))
```

```
>>> foo(1, 2, 3, 4) # call foo()
```

1. What is the value of the use_max?
2. What is the value of 'values'?
3. What value is returned from the function call? Why?

Your Answer:

1. use_max = 2
2. values = (3,4)

3. Here if condition goes True since `use_max=True`, thus the function will return `"x + (min(values))"`

which is $1 + \min(3,4) = 1 + 3 = 4$

1. `use_max` is assigned the value of the second parameter so
`use_max == 2`

2. `values == (3, 4)`

3. `use_max` evaluates to True so the expression becomes `1 + min(3, 4) == 4`

Question 2

2 / 2 pts

Python provides three different ways to import modules:

`import module_name as alias`

`from module_name import objects`

`from module_name import *`

Why should you avoid `"from module_name import *"`?

Your Answer:

`"from module_name import *"` can raise many conflicts since it imports all the functions present in the module so if there's an existing function name that matches any of your variable or function names then the conflict will occur.

`import *` may redefine important function definitions with potentially dangerous alternatives that can cause unexpected results.

Question 3**2 / 2 pts**

Write a function that demonstrates a good use of using keyword parameters. Don't use the examples from the lecture.

Your Answer:

```
def students(**kwargs = Any):  
    for key,value in kwargs.items():  
        print(f"{key} studies in {value}")  
  
students(Rohan Ratwani = Stevens Institute of Technology)
```

Output:

Rohan ratwani studies in Stevens Institute of Technology

Example from the lecture:

```
def keywords(**kwargs):  
    for key, value in kwargs.items():  
        print(f"{key}={value}")  
  
keywords(name="jim", age="ancient", happy=True)
```

Question 4**2 / 2 pts**

You are starting a project with several developers to write a large new Python program. Explain how you can use modules to organize the code for your project.

Say your project has file1.py, file2.py, file3.py, and file4.py. File2.py needs class foo from file3.py and class bar from file4.py. Write the Python code that you would include in file2.py to make foo and bar available.

Your Answer:

Using python modules we can import classes and function from the other existing files which encourages code reusability and also saves a lot of time.

To make foo and bar available in file2.py we need to write at the starting of file2.py:

```
from file3 import foo
```

```
from file4 import bar
```

file2.py should include the following lines:

```
from file3 import foo
```

```
from file4 import bar
```

Question 5

2 / 2 pts

How can pypi.org help to make Python programmers more productive?

Your Answer:

pypi.org is a site for people in the python community which consists of lakhs of projects and other lakhs of packages that can be searched and installed directly. This may help the user to learn easily and also get ready modules and projects which the user will not need to start from scratch.

Rather than solving all problems from scratch, Pythonistas can look to PyPI.org to see if existing solution already exist.

Quiz Score: **10** out of 10

