Congratulations! You passed!

Grade received 100% To pass 80% or higher

Go to next item

1. How	are while loops and for loops different in Python?	1/1 point
0	While loops can be used with all data types, for loops can only be used with numbers.	
0	For loops can be nested, but while loops can't.	
(e)	While loops iterate while a condition is true, for loops iterate through a sequence of elements.	
0 1	While loops can be interrupted using break, for loops using continue.	
\odot	Correct You got it! We can use while loops when we want our code to execute repeatedly while a condition is true, and for loops when we want to execute a block of code for each element of a sequence.	
9) wi integ	n the blanks to make the factorial function return the factorial of n. Then, print the first 10 factorials (from 0 to the corresponding number. Remember that the factorial of a number is defined as the product of an pre and all integers before it. For example, the factorial of five (51) is equal to 1*2*3*4*5=120. Also recall that actorial of zero (01) is equal to 1.	1/1 point
	1 def factorial(n): 2	
	7 for n in range(0,10): 8 print(n, factorial(n + 1)) Reset	
5 6 7 8	1 2	
	Correct	
	Great work! The pieces of code you're tackling keep getting more complex, you're doing a great job!	
3. Write	a script that prints the first 10 cube numbers (x**3), starting with x=1 and ending with x=10. 1 for num in range(1,11): 2 script = num ** 3 3 print(script) Run Reset	1/1 point
1 8 27 64 12 21 34 51 72	1 15 16 13 12	
\odot	Correct	
	You nailed it! You got the code to print the first 10 cubes.	

4. Write a script that prints the multiples of 7 between 0 and 100. Print one multiple per line and avoid printing any numbers that aren't multiples of 7. Remember that 0 is also a multiple of 7.

1/1 point

```
1 for i in range(0, 100, 7):
2 print(i)

Run

Reset

0 7 7 14 21 28 35 42 49 95 56 63 70 77 78 84 91 98
```

Correct

Awesomel You're getting Python to do all the work for you.

5. The retry function tries to execute an operation that might fail, it retries the operation for a number of attempts. Currently the code will keep executing the function even if it succeeds. Fill in the blank so the code stops trying after the operation succeeded. 1/1 point

```
def retry(operation, attempts):
for n in range(attempts):
if operation():
print("Attempt" + str(n) + " succeeded"
break
else:
print("Attempt" + str(n) + " failed")
                          def retry(operation, attempts):
    for n in range(attempts):
        if operation():
            print("Attempt" + str(n) + " succeeded")
            break
           10 retry(create_user, 3)
11 retry(stop_service, 5)
   Attempt 0 failed
Attempt 1 failed
Attempt 2 succeeded
Attempt 0 succeeded
Attempt 0 failed
Attempt 1 failed
Attempt 2 failed
Attempt 3 succeeded
None
⊘ Correct
```

Well done, you! You've fixed the code to stop executing once the function is successful.