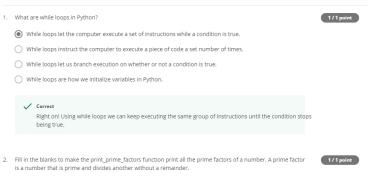
Practice Quiz: While Loops



```
2 def print_prime_factors(number):
                # Start with two, which is the first prime factor = 2
                factor = 2
# Keep going until the factor is larger than the number
while factor <= number:
# Check if factor is a divisor of number
if number % factor == 0:
# If it is, print it and divide the original number
print(factor)
number = number / factor</pre>
10
11
12
13
14
15
16
17
             else:
# If it's not, increment the factor by one factor += 1
return "Done"
         print_prime_factors(100)
# Should print 2,2,5,5
# DO NOT DELETE THIS COMMENT
```

You nailed it! You've got the code to print all the right prime factors. Well done! 4

3. The following code can lead to an infinite loop. Fix the code so that it can finish successfully for all numbers.

1/1 point

Note: Try running your function with the number 0 as the input, and see what you get!

```
 \begin{array}{c} & n=n\;/\;2\\ \#\; If\; after\; dividing\; by\; two\; the\; number\; is\; 1,\; it's\; a\; power\; of\; two\\ if\; n=-1:\\ return\; True\\ return\; False\\ \end{array} 
              print(is_power_of_two(0)) # Should be False
print(is_power_of_two(1)) # Should be True
print(is_power_of_two(8)) # Should be True
False
True
True
False
```

✓ Correct Awesome! You fixed a tricky error that was hard to find and the function now behaves correctly.

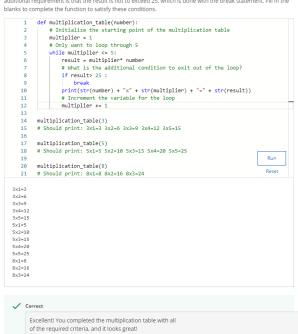
Fill in the empty function so that it returns the sum of all the divisors of a number, without including it. A divisor is a number that divides into another without a remainder

```
return sum
print(sum_divisors(0))
# 0
# 0
print(sum_divisors(3)) # Should sum of 1
# 1
print(sum_divisors(36)) # Should sum of 1+2+3+4+6+9+12+18
# 55
print(sum_divisors(102)) # Should be sum of 2+3+6+17+34+51
# 114
                                                                                Run
```



The multiplication_table function prints the results of a number passed to it multiplied by 1 through 5. An
additional requirement is that the result is not to exceed 25, which is done with the break statement. Fill in the
blanks to complete the function to satisfy these conditions.

1/1 point



4