1.

What does the lambda function in Python do?

* 

creates an infinite loop

* 

creates a named function

* 

creates an anonymous function

* 

None of the above

Explanation:

2.

What does the map function in Python do?

* 

 returns the first element in a list

* 

 applies a function to each element in a list and returns a list of the results

* 

 returns the last element in a list

* 

 None of the above

Explanation:

3.

What does the reduce function in Python do?

* 

applies a function to each element in a list and returns a list of the results

* 

 applies a function cumulatively to elements of an iterable, from left to right

* 

returns the first element in a list

* 

 None of the above

Explanation:

4.

What does the filter function in Python do?

* 

returns a filtered list of elements that satisfy a condition

* 

 returns the first element in a list

* 

 returns the last element in a list

* 

 None of the above

Explanation:

5.

What is the output of the following code?

numbers = [1, 2, 3, 4, 5]

squared\_numbers = map(lambda x: x\*\*2, numbers)

print(list(squared\_numbers))

* 

[0, 1, 4, 9, 16]

* 

 [2, 4, 6, 8, 10]

* 

[1, 4, 9, 16, 25]

* 

None of the above

Explanation:

6.

What is the output of the following code?

from functools import reduce

numbers = [1, 2, 3, 4, 5]

product = reduce(lambda x, y: x\*y, numbers)

print(product)

* 

120

* 

 30

* 

15

* 

 None of the above

Explanation:

7.

What is the output of the following code?

numbers = [1, 2, 3, 4, 5]

even\_numbers = filter(lambda x: x%2 == 0, numbers)

print(list(even\_numbers))

* 

 [2, 4]

* 

[1, 3, 5]

* 

 [1, 2, 3, 4, 5]

* 

 None of the above