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

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

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

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

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

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

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