- 1. How docstrings can be used to explain about the functions?
- 2. How to assign a default value in a function?
- 3. Can I have a variable having a default value as first argument?
- 4. Write a function to calculate sum of all numbers in a list? Sample list = list(range(1, 11))
- 5. Write a function to find the maximum of 3 numbers?
- 6. What does the following code print?

```
add_one = lambda x: x + 1
print(add_one(7))
```

7. What does the following code print?

```
multiply_by_two = lambda x: x * 2
numbers = [1, 2, 3]
doubled = map(multiply_by_two, numbers)
doubled_list = list(doubled)
print(doubled_list)
```

8. What does the following code print?

```
letters = ["beach", "car"]
funified = list(map(lambda word: f"{word} is fun!", letters))
print(funified)
```

9. What does the following code print?

```
nums = [3, 5, 16, 27]
some_nums = list(filter(lambda num: num < 10, nums))
print(some_nums)</pre>
```

10. What does the following code print?

```
words = ["bay", "cat", "boy", "fan"]
b_words = list(filter(lambda word: word.startswith("b"), words))
print(b_words)
```

11. What does the following code print?

```
nums = [4, 5, 6]
squares = list(map(lambda num: num ** 2, nums))
print(squares)
```

12. What does the following code print?

from functools import reduce numbers = [1, 2, 3, 4] sum = reduce(lambda x, y: x + y, numbers) print(sum)

13. What does the following code print?

from functools import reduce words = ["mary", "had", "a", "little", "lamb"] biggest_word = reduce(lambda x, y: x if len(x) > len(y) else y, words) print(biggest_word)

- 14. Write a function to print the even numbers from a given list? Sample List: [1, 2, 3, 4, 5, 6, 7, 8, 9]
- 15. Can you write a function for demonstrating "*" and "**" as arguments?