* Get Squares of all elements in the list
* Sum of Squares of list of integers
* Filter for even numbers using comprehensions
* Compute total sale amount from list of tuples
* Get sum of sale amount considering transactions where sale amount > 500
* Get Squares of all elements in the list
* Sum of Squares of list of integers
* Filter for even numbers using comprehensions
* Compute total sale amount from list of tuples
* Get sum of sale amount considering transactions where sale amount > 500
* Exercise 1: Get new list where the "commission %" is valid
* Exercise 2: Get sum of commission amounts where the "commission %" is valid
* "commission amount" = ("sale amount" \* "commission %") / 100

1. Which Python comprehension is used to get the squares of all elements in a list?

a) List comprehension

b) Dictionary comprehension

c) Set comprehension

d) Generator comprehension

Answer: a) List comprehension

1. What does the following expression calculate?

sum([x\*\*2 for x in [1, 2, 3, 4]])

a) The sum of the squares of all numbers in the list

b) The product of the squares of all numbers in the list

c) The sum of all numbers in the list

d) The product of all numbers in the list

Answer: a) The sum of the squares of all numbers in the list

1. Which Python comprehension can be used to filter for even numbers in a list?

a) List comprehension

b) Dictionary comprehension

c) Set comprehension

d) Generator comprehension

Answer: a) List comprehension

1. Given a list of tuples, each containing a sale amount, which Python comprehension can be used to compute the total sale amount?

a) List comprehension

b) Dictionary comprehension

c) Set comprehension

d) Generator comprehension

Answer: a) List comprehension

1. How can you modify a list comprehension to compute the total sale amount considering only transactions where the sale amount is greater than 500?

a) Add a condition at the end of the comprehension: if x > 500

b) Add a condition at the beginning of the comprehension: if x > 500

c) Use a dictionary comprehension instead

d) Use a generator comprehension instead

Answer: a) Add a condition at the end of the comprehension: if x > 500

1. Which Python comprehension is used to get the squares of all elements in a list?

a) List comprehension

b) Dictionary comprehension

c) Set comprehension

d) Generator comprehension

Answer: a) List comprehension

1. What does the following expression calculate?

sum([x\*\*2 for x in [1, 2, 3, 4]])

a) The sum of the squares of all numbers in the list

b) The product of the squares of all numbers in the list

c) The sum of all numbers in the list

d) The product of all numbers in the list

Answer: a) The sum of the squares of all numbers in the list

1. Which Python comprehension can be used to filter for even numbers in a list?

a) List comprehension

b) Dictionary comprehension

c) Set comprehension

d) Generator comprehension

Answer: a) List comprehension

1. Given a list of tuples, each containing a sale amount, which Python comprehension can be used to compute the total sale amount?

a) List comprehension

b) Dictionary comprehension

c) Set comprehension

d) Generator comprehension

Answer: a) List comprehension

1. How can you modify a list comprehension to compute the total sale amount considering only transactions where the sale amount is greater than 500?

a) Add a condition at the end of the comprehension: if x > 500

b) Add a condition at the beginning of the comprehension: if x > 500

c) Use a dictionary comprehension instead

d) Use a generator comprehension instead

Answer: a) Add a condition at the end of the comprehension: if x > 500