* Review Data Set
* Get number of elements in the list
* Get unique sale\_rep\_ids.
* Develop a function to get list of sale transactions where transaction amount is less than 500. Each element should be of type dict.
* Exercise 1: Develop a function to get list of transactions with invalid commission percentage (negative or None). Each element should be of type dict.
* Exercise 2: Develop a function to get list of transactions with commission amounts. Commission amount is equal to ("sale amount" \* "commission %") / 100. Each element should be of type dict. Each dict in the list should contain 5 elements. The list should not contain transactions with invalid commission % (negative or none). The last element in each of the dict should be named as commission\_amount.

1. Which of the following is not a Python data type?

A) Struct

B) Tuple

C) String

D) Integer

Answer: A) Struct

2. What is the correct syntax for creating a list in Python?

A) myList = (1, 2, 3)

B) myList = [1, 2, 3]

C) myList = {1, 2, 3}

D) myList = "1, 2, 3"

Answer: B) myList = [1, 2, 3]

3. What is the output of the following code snippet?

| myList = [1, 2, 3] print(myList[0]) |
| --- |

A) 1

B) 2

C) 3

D) IndexError

Answer: A) 1

4. What is the output of the following code snippet?

| myDict = {"a": 1, "b": 2, "c": 3} print(myDict.keys()) |
| --- |

A) [1, 2, 3]

B) ["a", "b", "c"]

C) ["1", "2", "3"]

D) ["a": 1, "b": 2, "c": 3]

Answer: B) ["a", "b", "c"]

5. What is the correct syntax for a for loop in Python?

A) for i in range(10)

B) for i = 0 to 9

C) for i in [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

D) for i in range(0, 10)

Answer: D) for i in range(0, 10)

6. What is the output of the following code snippet?

| myString = "Hello, world!" print(myString[7:]) |
| --- |

A) "Hello,"

B) "world!"

C) "world"

D) "o, world!"

Answer: B) "world!"

7. What is the output of the following code snippet?

| myList = [1, 2, 3] myList.append(4) print(myList) |
| --- |

A) [1, 2, 3]

B) [1, 2, 3, 4]

C) [4, 3, 2, 1]

D) [1, 2, 3, [4]]

Answer: B) [1, 2, 3, 4]

8. What is the output of the following code snippet?

| myDict = {"a": 1, "b": 2, "c": 3} print(myDict.get("d", "Not found")) |
| --- |

A) "a"

B) "Not found"

C) 3

D) None

Answer: B) "Not found"

9. What is the output of the following code snippet?

| myList = [1, 2, 3] print(len(myList)) |
| --- |

A) 1

B) 2

C) 3

D) 4

Answer: C) 3

10. What is the output of the following code snippet?

| myList = [{"sale\_rep\_id": 1, "amount": 200}, {"sale\_rep\_id": 2, "amount": 600}, {"sale\_rep\_id": 1, "amount": 400}] unique\_ids = set() for item in myList:  unique\_ids.add(item["sale\_rep\_id"]) print(unique\_ids) |
| --- |

a){1, 2}

b) {2, 3}

c) {2, 3, 4}

d) {3, 4}

Answer: A) {1, 2}