* Getting started with NumPy
* Some of the common operations using NumPy
* Array creation
* Mathematical operations
* Indexing and slicing
* Lineary Algebra
* Data analysis
* Process Sales Data - Real World Example
* Exercise and Solution

1. Which of the following statements is true about NumPy?

A. NumPy is a library for numerical computing with Python.

B. NumPy is a programming language.

C. NumPy is used only for data analysis.

D. NumPy is used for image processing only.

Answer: A

1. Which of the following is the correct way to create an array in NumPy?

A. array([1, 2, 3])

B. create\_array(1, 2, 3)

C. numpy.array([1, 2, 3])

D. array.create([1, 2, 3])

Answer: C

1. Which of the following is not a mathematical operation that can be performed using NumPy?

A. Addition

B. Subtraction

C. Division

D. Concatenation

Answer: D

4. Which of the following is the correct way to slice a NumPy array?

A. arr[2:5]

B. arr[2, 5]

C. arr[2;5]

D. arr[2-5]

Answer: A

5. Which NumPy function is used to calculate the dot product of two arrays?

A. dot()

B. cross()

C. matmul()

D. multiply()

Answer: A

6. Which of the following NumPy functions can be used to calculate the mean of an array?

A. mean()

B. average()

C. median()

D. mode()

Answer: A or B (Both functions can be used to calculate the mean of an array)

7. Which NumPy function can be used to load a CSV file into a NumPy array?

A. load()

B. loadtxt()

C. loadcsv()

D. loadfile()

Answer: B

1. Which of the following NumPy functions can be used to find the maximum value in an array?

A. maximum()

B. max()

C. amax()

D. All of the above

Answer: D

1. Which of the following statements is true about the data types used in NumPy?

A. NumPy uses only one data type for all arrays.

B. NumPy supports only numerical data types.

C. NumPy supports a wide range of data types, including numerical and non-numerical data types.

D. NumPy does not support any data types.

Answer: C

1. Which of the following NumPy functions can be used to create an array with evenly spaced values?

A. linspace()

B. arange()

C. ones()

D. Both A and B are correct

Answer: D