```
import numpy as np
import pandas as pd
# 1. Lists
list1 = [1, 2, 3, 4]
list2 = [5, 6, 7, 8]
# 2. Arrays
array1 = np.array(list1)
array2 = np.array(list2)
# 3. Identify their type using type()
type_list1 = type(list1)
type_array1 = type(array1)
# 4. Perform mathematical operations
multiplication_result = array1 * array2
division_result = array1 / array2
poweroff_result = np.power(array1, array2)
# 5. Combine text with Numpy function
text_output = f"Addition of Two: {array1} + {array2}"
# 6. Implement np.sin(), log(), log2(), np.exp()
sin_result = np.sin(array1)
log_result = np.log(array1)
log2_result = np.log2(array1)
exp_result = np.exp(array1)
# Displaying results
print("1. Lists:", list1, list2)
print("2. Arrays:", array1, array2)
print("3. Types:", type_list1, type_array1)
print("4. Mathematical Operations:")
print(" Multiplication:", multiplication_result)
print(" Division:", division_result)
print(" Power Off:", poweroff_result)
print("5. Textual Output:", text_output)
print("6. Numpy Functions:")
print(" sin:", sin_result)
print(" log:", log_result)
print(" log2:", log2_result)
print(" exp:", exp_result)
1. Lists: [1, 2, 3, 4] [5, 6, 7, 8]
      2. Arrays: [1 2 3 4] [5 6 7 8]
      3. Types: <class 'list'> <class 'numpy.ndarray'>
      4. Mathematical Operations:
         Multiplication: [ 5 12 21 32]
         Division: [0.2 0.33333333 0.42857143 0.5 Power Off: [ 1 64 2187 65536]
      5. Textual Output: Addition of Two: [1 2 3 4] + [5 6 7 8]
      6. Numpy Functions:
         log: [0.
                      0.69314718 1.09861229 1.38629436]
         log2: [0.
                                      1.5849625 2.
                            1.
         exp: [ 2.71828183  7.3890561  20.08553692  54.59815003]
```