```
import numpy as np
lst1=[1,2,3]
array1 = np.array(lst1)
print("list = ",lst1)
print("array = ",array1)
type(lst1)
type(array1)
type(lst1)
     list = [1, 2, 3]
array = [1 2 3]
import numpy as np
array1=np.array([10,20,30])
array2=np.array([2,2,2])
print("array2 multiplied by array1: ",array1*array2)
print("array2 divided by array1: ",array2/array1)
print("array2 raised to the power of array1: ",array2**array1)
print("Adding two numpy arrays {array1} and {array2} together:", array1+array2)
     array2 multiplied by array1: [20 40 60]
     array2 divided by array1: [0.2 0.1
                                                          0.06666667]
     array2 raised to the power of array1: [
                                                     1024 1048576 1073741824]
     Adding two numpy arrays {array1} and {array2} together: [12 22 32]
import numpy as np
array1=np.array([10,20,30])
# sine function
print("Sine: ",np.sin(array1))
#logarithm
print("Natural logarithm: ",np.log(array1))
print("Base-10 logarithm: ",np.log10(array1))
print("Base-2 logarithm: ",np.exp(array1))
#Exponential
print("Exponential: ",np.exp(array1))
     Sine: [-0.54402111 0.91294525 -0.98803162]
     Natural logarithm: [2.30258509 2.99573227 3.40119738]
     Base-10 logarithm: [1. 1.30103 1.47712125]
Base-2 logarithm: [2.20264658e+04 4.85165195e+08 1.06864746e+13]
     Exponential: [2.20264658e+04 4.85165195e+08 1.06864746e+13]
```