import numpy as np

True or False

True

True and False

False

not True

False

True ^ False

True

5 == 6

False

array1 = [True, True, False, False, True]  
array2 = [True, False, False, True, False]

np.logical\_and(array1, array2)

array([ True, False, False, False, False])

np.logical\_not(array1)

array([False, False, True, True, False])

np.logical\_or(array1, array2)

array([ True, True, False, True, True])

np.logical\_xor(array1, array2)

array([False, True, False, True, True])