Short Functions for Calculation between Array and Scalars

Write these functions that work like the name or comment below.

```
import numpy as np
def toCelsius( f ):
      # f is a 1-d array storing temperatures in Fahrenheit
      # returns 1-d array storing the converted temp. from f in Celsius
def BMI ( wh ):
      \# wh is a 2-d array of size nx2 storing weight (in kg) and height (in cm) of
      # the nth person. Oth column stores weight, 1st column stores height
      # returns 1-d array storing body mass index of everyone in wh
                                                                BMI = \frac{weight_{(in Kg.)}}{height_{(in m.)}^{2}}
def distanceTo( p, Points ):
      # p is a 1-d array with size =2, representing an x, y coordinate.
      # 0th index stored the coordinate of x, 1st index stored the coordinate of y
      # Points is a 2-d array with the size of nx2: Storing the coordinate
      # of all n points.
      # returns 1-d array with the size of n. The array stores distance from p
      # to each point in Points.
exec(input().strip()) #must have this line when submitting to grader
```

Input

Python code for the functions

Output

The results after executing code.

Example

Input (from keyboard)	Output (on screen)
<pre>print(toCelsius(np.array([32,212])))</pre>	[0. 100.]
print(BMI(np.array([[60,170],[50,160]])))	[20.76124567 19.53125]
<pre>print(distanceTo([0,0],np.array([[3,0],[0,4],[3,4]])))</pre>	[3. 4. 5.]