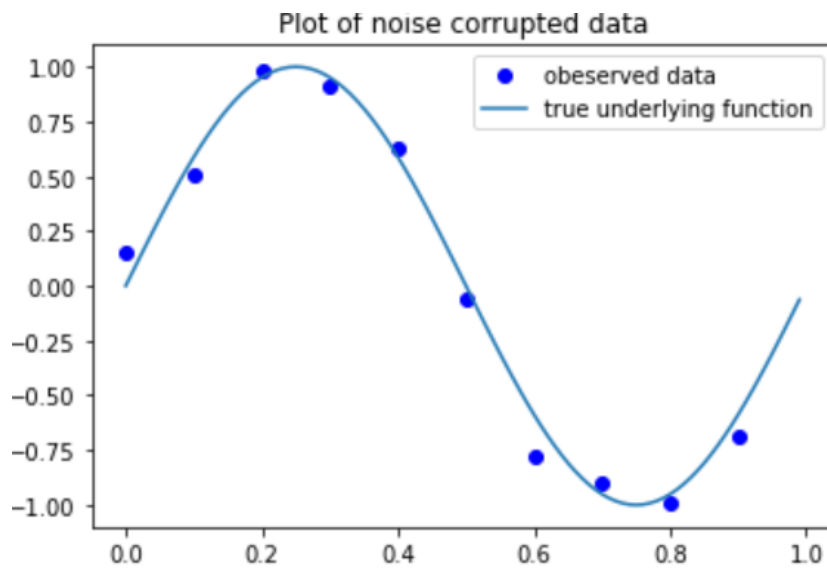


Problem1 :

Plot a sin function as well as noise corrupted data from this sin function



Problem 2:

Determine if an array is monotonic. (Without using Python function)

Example:

- [1,2,3,3,3,3,3,4,5,6,7] is monotonic (increasing)
- [7,6,5,4,3,3,3,3,3,2,1] is monotonic (decreasing)
- [1,5,4,3,3,3,3,3,2,6,7] is not monotonic