ASSIGNMENT

1. diff b/w map and compact map

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| MAP | COMPACT MAP |
| map() will take a value out of its container, transform it using the code we specify, then put it back in its container. | **It performs a transformation (the “map” part of its name), but then unwraps all the optionals and discards any that are**nil**.** |
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2. what is of reduce function

**To combine all items in a collection to create a single new value. So, the reduce function takes two arguments. One is an initial value which is used to store the initial value or the value or result returned by the closure from each iteration**

3. diff b/w sort and sorted

**Both perform sort operations only difference is sorted() wont change initial array it returns array, while sort() changes the original array.**

4. what is use of Filter Higher order function

**The filter function loops over every item in a collection, and returns a collection containing only items that satisfy an include condition.**

5. What is higher order function

**A higher-order function is a function that takes one or more functions as arguments or returns a function as its result.**