Assignment – Day 9

1. Take two list of numbers and generate a list of tuples that are combo of the numbers such that two numbers in the pair are not equal.

    Hint: Use list comprehension
    Input
    x = [1,2,3]
    y = [1,2,3]
    Output
    [(1, 2), (1, 3), (2, 1), (2, 3), (3, 1), (3, 2)]   ***[Marks: 2]***

2. Take two list of numbers of products quantities and prices and calculate total price.

    Hint: Use list comprehension and aggregation
    Input
    product_quantities = [13, 5, 6, 10, 11]
    prices = [1.2, 6.5, 1.0, 4.8, 5.0]
    Output
    Total = 157.1   ***[Marks: 2]***

3. Take a sentence and output a dictionary with word as the key and number of characters in the word as value
    Hint: Use dictionary comprehension

    [Marks: 2]

4. Run the code below to generate a matrix
    Approach:
    take an input character as target
    print the row index and column index if the character is found
    Else print "Not found"
    Input
    Enter Target character : h
    Output
    2 4
    table = [list("abcd"),list("efgh"),list("ijkl")]

    [Marks: 3]

5. Run a program to demonstrate Fibonacci and Factorial through recursion

    [Marks: 3]