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*Assignment 4*

**Q. Write a program to identify sub list [1,1,5] is there in the given list in the same order, if yes print "It's a match" id no then print "it's gone" in function.**

x = [1,5,5,6,6,2,1,4,1,8,5]

y = [1,1,5]

def check(a,b):

for i in a:

for j in b:

if(len(b)>=0 and j == i):

b.pop(0)

else:

break

return b

if len(check(x,y))==0:

print("Its a match")

else: print("Its gone")

check(x,y)

**Q. Make a function for prime number and use filter to filter out all the prime numbers form 1-2500.**

def primes\_list(num\_list):

divs = [2,3,5,7]

primes = [x for x in set(num\_list) if 0 not in {1 if ((x%i != 0) | (x in divs)) & (x > 0) else 0 for i in divs}]

return primes

**Q. Make a lambda function for capitalizing the whole sentence passed using arguments. and map all the sentences in the list, with the lambda functions.**

def sentenceCapitalizer (string1: str):

sentences = string1.split(". ")

sentences2 = [sentence[0].capitalize() + sentence[1:] for sentence in sentences]

string2 = '. '.join(sentences2)

return string2