**Challenge-1:**

**Write a python program which will find all such numbers which are divisible by 7 but are not a multiple of 5 between 2000 and 3200 (both included). The numbers obtained should be printed in a comma-separated sequence on a single line.**

**L=[]**

**For I in range(2000,3000):**

**If (i%7==0) and (i%5!=0):**

**l.append(str(i))**

**print(‘,’.join(l))**

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**Challenge-2:**

**Write a python program that accepts sequence of lines as input and prints the lines after making all characters in the sentence capitalized.**

**Suppose the following input is supplied to the program:**

**Hello world**

**Practice makes perfect**

**Then, the output should be:**

**HELLO WORLD**

**PRACTICE MAKES PERFECT**

Solution:

lines = []

while True:

s = raw\_input()

if s:

lines.append(s.upper())

else:

break;

for sentence in lines:

print sentence

**Challenge-3:**

**Write a python program that accepts a sentence and calculate the number of upper case letters and lower case letters.**

**Suppose the following input is supplied to the program:**

**Hello world!**

**Then, the output should be:**

**UPPER CASE 1**

**LOWER CASE 9**

def string\_test(s):

d={"UPPER\_CASE":0, "LOWER\_CASE":0}

for c in s:

if c.isupper():

d["UPPER\_CASE"]+=1

elif c.islower():

d["LOWER\_CASE"]+=1

else:

pass

print ("Original String : ", s)

print ("No. of Upper case characters : ", d["UPPER\_CASE"])

print ("No. of Lower case Characters : ", d["LOWER\_CASE"])

string\_test('The quick Brown Fox')