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#Q1: Write a Python program to map two lists into a dictionary.
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L1 = [1,2,3,4]

L2 = ['a','b','c','d']

newDict = {}

for i in range(len(L1)):

newDict[L1[i]] = L2[i]

print(newDict)
```

#Q2: Write a Python program that accepts a string and calculate the number of digits and letters

```
userString = input("Enter the string: ").replace(" ","").replace(",",""").replace(".",""")
baseList = list(userString)
charCount = 0
intCount = 0
for i in range(len(baseList)):
    flagChar = True
    for j in range(10):
        if baseList[i]==str(j):
            intCount+=1
            flagChar == True):
            charCount += 1
print("Letters",charCount)
print("Digits",intCount)
```

#Q3: Write a Python function that takes a list of words and returns the length of the longest one.

```
numberOfValues = int(input("Enter number of words in list: "))
checkList = []
while (numberOfValues>0):
```

```
listValue = input("Enter the word you want to add in list: ")
        checkList.append(listValue)
        numberOfValues -= 1
maxLengthString = max(checkList, key=len)
print("Longest word:", ''.join(checkList))
print("Length of the longest word:",maxLengthString,len(maxLengthString))
#Q4: Write a Python program to construct the following pattern, using a nested loop number.
def printPattern(rows):
  for i in range(rows+1):
    for k in range(i):
      print(i,end=")
    print("")
numOfRows = int(input("Enter number of rows:"))
printPattern(numOfRows)
#Q5: Check whether a number is russian prime or not.
def isRussianPrime(rpnum):
  varLength = len(rpnum)
  newList = []
  while varLength>0:
    listItem = rpnum[:varLength]
    newList.append(int(listItem))
    varLength -= 1
  flagPrime = True
  for i in range(len(newList)):
    for j in range(2,newList[i]):
      if newList[i]%j == 0:
```

```
flagPrime = False
    break

if(flagPrime == True):
    print("{} is RussianPrime".format(rpnum))

else:
    print("{} is not RussianPrime".format(rpnum))

newInput = input("Enter the number to check whether it's RussianPrime or Not: ")
isRussianPrime(newInput)
```