

Python 13/6/21 Sunday assignment

Sourav Chitnis

Q1. Write a Python program to map two lists into a dictionary.

```
a=int(input("Enter how many numbers you want to enter: "))
l1=[] l2=[] for i in range(a):      b=int(input("Enter key:
"))      l1.append(b)      d=input("Enter value: ")
l2.append(d) d1={} for i in range(len(l1)):
    d1[l1[i]]=l2[i]
print(d1)
```

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

```
a=input("Enter string: ")
print(a) letter=0 digit=0 for i
in range(len(a)):      if
ord(a[i]) in range(48,58):
    digit+=1
elif ord(a[i])==32:
    pass      elif ord(a[i]) in range(97,123) or
range(65,91):
    letter+=1

print("Letter: ",letter)
print()
print("Digit: ",digit)
```

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

```
a=input("Enter string: ")
b=a.split() print(b)
low=0 for i in b:
    if len(i)>low:
low=len(i)
flag=b.index(i)
print("longest word:
",b[flag],low)
```

Q4. Write a Python program to construct the following pattern, using a nested loop number

```

a=int(input("Enter number: "))
for i in range(1,a+1):
    for
j in range(1,i+1):
print(i,end=" ")
print()

```

Q5. Check whether a number is russian prime or not

```

def prime(n):
    if n==1 or n==0:
        return False
    elif n==2:
        return True
    else:
        for i in range(2,n):
            if n%i==0:
                return False

        else:
            return True

a=int(input("enter number: "))

i=10
flag=0
if prime(a):
    while True:
        if int((a-(a%i))/i)==0:
            break
        else:
            if prime(int((a-(a%i))/i)):
                flag+=1
            i=i*10
if flag!=0 :
    print("Russian Prime")
elif flag==0 and int((a-(a%10))/10)==0 and prime(a):
    print("Russian Prime")
else:
    print("Not Russian Prime")

```