Write a Python function that accepts a string and calculate the number of upper case letters and lower case letters. Sample String : 'The quick Brow Fox' Expected Output : No. of Upper case characters : 3 No. of Lower case Characters : 12

```python
def CaseCounter(sample,LowerCase_Counter,UpperCase_Counter):
  for i in range(len(sample)):
    if(ord(sample[i])>=65 and ord(sample[i])<=90):
        UpperCase_Counter+=1
    elif(ord(sample[i])>=97 and ord(sample[i])<=122):
         LowerCase_Counter+=1
  print("Upper case count: ",UpperCase_Counter)
  print("Lower case count: ",LowerCase_Counter)
sample = str(input('Enter string: '))
UpperCase_Counter=0
LowerCase_Counter=0
CaseCounter(sample,LowerCase_Counter,UpperCase_Counter)
```

```
Enter string: Hello WoRld
Upper case count:  3
Lower case count:  7
```

— + Code — + Text —

Write a Python program to create a lambda function that takes one argument, and that argument will be multiplied with an unknown given number.

```python
import random
a = int(input("Enter s number: "))
b = random.randint(1,100)
result = lambda a: print(a*b)
result(a)
```

```
Enter s number: 8
664
```

Write a Python program to generate and print a list of first and last 5 elements where the values are square of numbers between 1 and 30 (both included).

```python
def printValues():
    l = list()
    for i in range(1,21):
        l.append(i**2)
    print(l[:5])
    print(l[-5:])

printValues()
```

```
[1, 4, 9, 16, 25]
[256, 289, 324, 361, 400]
```

Write a Python program to compute the sum of all the elements of each tuple stored inside a list of tuples. Original list of tuples: [(1, 2), (2, 3), (3, 4)] Sum of all the elements of each tuple stored inside the said list of tuples: [3, 5, 7] Original list of tuples: [(1, 2, 6), (2, 3, -6), (3, 4), (2, 2, 2, 2)] Sum of all the elements of each tuple stored inside the said list of tuples: [9, -1, 7, 8]

```python
def res(lt):
  result = map(sum,lt)
  return list(result)
ltupple = [(1, 2, 6), (2, 3, -6), (3, 4), (2, 2, 2, 2)]
print(res(ltupple))
```

```
[9, -1, 7, 8]
```

Write a Python program to create and display all combinations of letters, selecting each letter from a different key in a dictionary. Sample data : {'1':['a','b'], '2':['c','d']} Expected Output: ac ad bc bd

```python
import itertools

data = {'1':['a','b'], '2':['c','d']}
keys = list(data.keys())
combinations = list(itertools.product(*[data[key] for key in keys]))

for combination in combinations:
    print("".join(combination))
```

```
ac
ad
bc
bd
```