Task2
Write a lambda expression to extract first word of a string.

In [75]:
```
a=lambda b:b[0]
a('man')
```

Out[75]: 'm'

In [23]:
```
a=lambda x: x.split()[0]
a
```

Out[23]: <function __main__.<lambda>(x)>

In [24]:
```
a('My name is maneesh')
```

Out[24]: 'My'

Extract the first word from every string from a list of strings by using map function.

In [25]:
```
l1 = ['Hi my self maneesh','This is intern from regex','from jaipur']
list(map(lambda num : num.split()[0], l1))
```

Out[25]: ['Hi', 'This', 'from']

Write a function to extract first word of s string (with many words separated by space).

In [26]:
```
def f_word(s):
    return s.split()[-5]
```

In [27]:
```
f_word('My age is - 24')
```

Out[27]: 'My'

Write a function to return a list of prime factors of a given number.

In [76]:
```
import math
def prime_factors(num):
    while num % 2 == 0:
        print(2,end=', ')
        num = num / 2

    for i in range(3, int(math.sqrt(num)) + 1, 2):

        while num % i == 0:
            print(i,end=', ')
            num = num / i
    if num > 2:
        print(num,end=', ')
```

In [77]:
```
prime_factors(300)
```

```
2, 2, 3, 5, 5,
```

Write a function that finds 2nd largest among 4 numbers (Repetitions are allowed,without sorting).

In [78]:
```
def sec_max(l1):
    sec_maxval = l1[0]
    maximum = l1[0]
    for i in range(len(l1)):
        if(l1[i] > maximum):
            maximum = l1[i]

    for i in range(len(l1)):
        if(l1[i] > sec_maxval and l1[i] != maximum):
            sec_maxval = l1[i]

    return sec_maxval
```

In [79]:
```
sec_max([100,3,59,300])
```

Out[79]:
```
100
```