

## Assignment 2

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Subject-Function bold text

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In [ ]:

*#Q1. Write a lambda expression to extract first word of a string.*

```
str="Welcome to Python Programming"
first_word = lambda str:str.split()[0]
first_word(str)
```

Out[ ]:

'Welcome'

In [ ]:

*#Q2. Write a function to extract first word of s string (with many words separated by space).*

```
def first_word(s):
    new_list=s.split(" ")
    print(new_list[0])
first_word("Welcome to Python Programming")
```

Welcome

In [ ]:

*#Q3. Extract the first word from every string from a list of strings by using map function*

```
new_list=["Welcome to Python Programming","I am doing assignment","Tomorrow is Sunday"]
list(map(lambda s:s.split()[0],new_list))
```

Out[ ]:

['Welcome', 'I', 'Tomorrow']

In [ ]:

*#Q4. Write a function to return a list of prime factors of a given number*

```
def prime_func(val):
    prime_list=[]
    for i in range(2,val):
        if val%i==0:
            prime_list.append(i)
    print(prime_list)
prime_func(22)
```

[2, 11]

In [ ]:

*#Q5. Write a function that finds 2nd largest among 4 numbers  
(Repetitions are allowed, without sorting)*

```
def second_large(list1):
    mx=max(list1[0],list1[1])
```

```
secondmax=min(list1[0],list1[1])
n =len(list1)
for i in range(2,n):
    if list1[i]>mx:
        secondmax=mx
        mx=list1[i]
    elif list1[i]>secondmax and mx != list1[i]:
        secondmax=list1[i]
print("Second highest number is : ",secondmax)
list1=[33,12,45,78]
second_large(list1)
```

Second highest number is : 45