

## Assignment 2

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github : [https://github.com/ORION-22/RegexSoftware\\_ASSIGNMENT.git](https://github.com/ORION-22/RegexSoftware_ASSIGNMENT.git)

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

In [4]:

```
c = "hello world this is orion "  
a = (lambda x:[i for i in x if i[0].isalpha()][0])(c.split())  
print(a)
```

hello

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

In [21]:

```
def firstLetterWord(str):  
    result = []  
    v = True  
    for i in range(len(str)):  
        if (str[i] == ' '):  
            v = True  
        elif (str[i] != ' ' and v == True):  
            result.append(str[i])  
            v = False  
    return result  
  
str = "hello Regex Software thank you for support."  
print('The string is :',str)  
print('List of first alphabet of the words:',firstLetterWord(str))
```

The string is : hello Regex Software thank you for support.  
List of first alphabet of the words: ['h', 'R', 'S', 't', 'y', 'f', 's']

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

In [16]:

```
list1=["hello world","regex software","thank you"]  
list2=[]  
  
for i in list1:  
    first_word=i.split()[0]  
    list2.append(first_word)  
  
print("First words of the list of sentences are:")  
print(list2)
```

First words of the list of sentences are:  
['hello', 'regex', 'thank']

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

In [9]:

```
Number = int(input("Please Enter any Number: "))
```

```

lsprime=[]
for i in range(2, Number + 1):
    if(Number % i == 0):
        isprime = 1
        for j in range(2, (i //2 + 1)):
            if(i % j == 0):
                isprime = 0
                break

        if (isprime == 1):
            lsprime.append(i)

print('List of prime factors:')
print(lsprime)

```

```

Please Enter any Number: 1000
List of prime factors:
[2, 5]

```

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

In [12]:

```

list1 = []

num = int(input("Enter number of elements in list: "))
for i in range(1, num + 1):
    ele = int(input("Enter elements: "))
    list1.append(ele)

new_list = set(list1)
new_list.remove(max(new_list))
print("Second largest",max(new_list))

```

```

Enter number of elements in list: 4
Enter elements: 1
Enter elements: 2
Enter elements: 3
Enter elements: 4
Second largest 3

```

In []:

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