

#Task 2 Registration ID : SIRSS1038 Leela Satya Kartheek Raja

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

In [76]:

```
x= lambda x : x[:x.index(' ')]  
y=input("enter string: ")  
(x(y))
```

enter string: hello who are you

Out[76]:

'hello'

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

In [77]:

```
def func_String(x):  
    return x[:x.index(' ')]  
  
String = input("Enter String: ")  
func_String(String)
```

Enter String: hello where are you from

Out[77]:

'hello'

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

In [78]:

```
N=int(input("Enter Number Of Strings: "))  
L = [input("Enter a String : ") for i in range(0,N)]  
  
def func_String(x):  
    return x[:x.index(' ')]  
  
print("List Of Strings: " ,end=' ')  
print(L)  
r=map(func_String,L)  
(list(r))
```

Enter Number Of Strings: 2

Enter a String : hello who are you

Enter a String : hello where are you from

List Of Strings: ['hello who are you', 'hello where are you from']

Out[78]:

['hello', 'hello']

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

In [79]:

```
def prime_factors(n):  
    i = 2  
    factors = []  
    while i * i <= n:  
        if n % i:  
            i += 1  
        else:  
            n //= i  
            factors.append(i)
```

```

        factors.append(i)
    if n > 1:
        factors.append(n)
    return factors
n=int(input("Enter No :"))
prime_factors(n)

```

Enter No :180

Out[79]:

[2, 2, 3, 3, 5]

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

In [80]:

```

M = int(input("Enter the values of m : "))
L = [int(input("Enter number : " )) for i in range(0,M)]

def SecondLargest(lst):
    Largest = None
    SecondLargest = None
    for a in lst:
        if not Largest or a > Largest:
            if Largest:
                SecondLargest = Largest
            Largest = a

    print("SecondLargest: {}".format(SecondLargest))

print(L)
SecondLargest(L)

```

Enter the values of m : 5
Enter number : 1
Enter number : 45
Enter number : 58
Enter number : 98
Enter number : 874
[1, 45, 58, 98, 874]
SecondLargest: 98

In []:

In []: