Task 2

Referral Code: SIRSS1262 ¶

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

In [3]:
```
l = lambda x: x[:x.index(' ')]
i = input("Enter String: ")
print(l(i))
```

```
Enter String: Today is Saturday
Today
```

Q2. Write a function to extract first word of s string.

In [5]:
```
def fun(y):
    return y[:y.index(" ")]
s=input("Enter String: ")
fun(s)
```

```
Enter String: Wear mask when going outside
```

Out[5]: 'Wear'

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

In [60]:
```
lst=[]
n=int(input("Enter number of strings: "))
for i in range(n):
    s=input("Enter a string: ")
    lst.append(s)
def fun(x):
    return x[:x.index(" ")]
print("List of strings: ",end=' ')
print(lst)
r=map(fun,lst)
print(list(r))
```

```
Enter number of strings: 2
Enter a string: wear mask
Enter a string: maintain social distancing
List of strings:  ['wear mask', 'maintain social distancing']
```

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

In [29]:
```
def fun(n):
    i = 2
    fac = []
    while i * i <= n:
        if n % i:
            i += 1
        else:
                n //= i
                fac.append(i)
    if n>1:
        fac.append(n)
    return fac
n=int(input("Enter a number: "))
fun(n)
```

```
Enter a number: 87
```

Out[29]: [3, 29]

Q5. Write a function that finds 2nd largest among 4 numbers.

In [30]:
```
list1 = [10, 20, 4, 45, 99]

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 : ",\
      str(secondmax))
```

```
Second highest number is :  45
```