

Task 2

Machine Learning and Deep learning Summer Internship

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

In [16]:

```
s = input("Enter a string : ")
first_word = lambda x: s.split()[x]
print("First word of the string is : ",first_word(0))
```

Enter a string : Write a lambda expression to extract first word of a string
First word of the string is : Write

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

In [17]:

```
s = input("Enter a string : ")
def extract(s):
    return s.split()[0]
print(extract(s))
```

Enter a string : Machine Learning and Deep learning Summer Internship
Machine

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

In [18]:

```
ss=["Hello jack. How are you? You look a little bad today, is everything okay?",
"I am very pleased to meet you, can I please have your phone number?",
"Hello, I just came to this school. Can I meet you? Where are you from and what do you like, can I learn?",
"Good afternoon, can I have a menu, please? If I ask, can I have water with my meal? Everything was very nice, I will come again."]

def first_word(ss):
    return ss.split()[0]
first_words = list(map(first_word,ss))
print("First words are: ", first_words)
```

First words are: ['Hello', 'I', 'Hello,', 'Good']

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

In [19]:

```
factor list = []
```

```
def prime_f_list(n):
    factors = []
    div = 2

    while div <= n:
        if n%div == 0:
            factors.append(div)
            n = n/div
        else:
            div += 1
    return factors
n = int(input("Enter a number for list of it's prime factors : "))
print("List of it's prime factors is: ",prime_f_list(n))
```

Enter a number for list of it's prime factors : 128
List of it's prime factors is: [2, 2, 2, 2, 2, 2, 2]

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

In [20]:

```
l =[]
for i in range(1, 5):
    inputs = int(input("Enter elements: "))
    l.append(inputs)

ordered_list=set(l)
ordered_list.remove(max(ordered_list))
print("Second largest number is :",max(ordered_list))
```

Enter elements: 54
Enter elements: 35
Enter elements: 65
Enter elements: 76
Second largest number is : 65