Name Validation

- M Srilalitha
- · Srilalitha M
- · M. Srilalitha
- · M Sri Lalitha
- · Sri Lalitha Mulpuru
- Mulpuru Srilalitha

M Srilalitha

```
Out[2]: <re.Match object; span=(0, 12), match='M Srilalitha'>
```

Phone number pattern

- 6745321986
- 06745321986
- 916745321986
- +916745321986

917865455439

```
Out[3]: <re.Match object; span=(0, 12), match='917865455439'>
```

Email Validator

- srilalitha.m@apssdc.in (mailto:srilalitha.m@apssdc.in)
- all letters must be lowercase alphabets ===> 6 max 14
- contains some numbers (optional) ==> 1 to 6
- it may contain special charecters(optional) ==>[&.-_]
- · after special charecter must contain numbers or digits
- must contain @
- must contains some alphabets ===> length 4-8
- · must contain .
- must contains some alphabets ===> length 2-4

Comprehensions

Comprehensions are used to reduce the number of lines of code

Types

- · list comprehension
- · Set comprehension
- · Dictionary Comprehension

List Comprehension

Syntax:

- if only if condition is there===>[output loop condition]
- if contains both if and else ===>[output(if) condition loop]

```
In [8]: 1 ### List Comprehension
2 s = [i for i in l if i%2==0]
3 print("Even numbers:",s)
```

Even numbers: [2, 4, 6, 8]

```
In [9]: 1 ["Even" if i%2==0 else "odd" for i in 1]
```

```
Out[9]: ['odd', 'Even', 'odd', 'Even', 'odd', 'Even', 'odd']
```

```
Out[11]: ['a', 'b']
```



```
In [ ]: 1
```