

# FEB6 DSA Day2

February 6, 2021

```
[1]: l = [1, 2, 3, 4, 'hello']  
     print(l)
```

```
[1, 2, 3, 4, 'hello']
```

```
[3]: print(l[3])
```

```
4
```

```
[4]: l[0] = 10  
     print(l)
```

```
[10, 2, 3, 4, 'hello']
```

```
[5]: s = "hello"  
     print(s[1])
```

```
e
```

```
[6]: s[0] = 'w'
```

```
      □  
↳ -----  
  
      TypeError                                Traceback (most recent call↳  
↳last)  
  
      <ipython-input-6-8eb28e100848> in <module>  
      ----> 1 s[0] = 'w'
```

```
TypeError: 'str' object does not support item assignment
```

# 1 Slicing

```
[8]: l = [10, 20, 30, 40, 50]
      print(l[1:4]) # start : end

      print(l[1:])
```

```
[20, 30, 40]
[20, 30, 40, 50]
```

```
[9]: print(l[:])
```

```
[10, 20, 30, 40, 50]
```

```
[10]: print(l[:4])
```

```
[10, 20, 30, 40]
```

start, end, step

```
[14]: print(l[0 : ])
      print(l[0 : : 2])
```

```
[10, 20, 30, 40, 50]
[10, 30, 50]
```

```
[15]: print(l[4 : 0 : -1])
```

```
[50, 40, 30, 20]
```

```
[21]: print(l[-2])
```

```
40
```

```
[18]: print(l[::-1])
```

```
[50, 40, 30, 20, 10]
```

```
[19]: print(l)
```

```
[10, 20, 30, 40, 50]
```

```
[22]: l = [1, 2, 3, 4, 5]
      l.append(6)
      print(l)
```

```
[1, 2, 3, 4, 5, 6]
```

```
[23]: l.insert(3, 12)
      print(l)
```

[1, 2, 3, 12, 4, 5, 6]

```
[24]: l.pop()
      print(l)
```

[1, 2, 3, 12, 4, 5]

```
[25]: l.pop(3)
      print(l)
```

[1, 2, 3, 4, 5]

```
[26]: l = [10, 20, 30, 40, 50]
      l.remove(30)
```

```
[27]: print(l)
```

[10, 20, 40, 50]

```
[28]: s = "welcome"
      print(s[::-1])
```

emoclew

```
[ ]:
```