## Mar 8 DSA Day1

March 8, 2021

```
[2]: x = 10
       print(x)
       10
 [5]: a = b = c = 10
       print(a, end = ' ')
       print(b, end = ' ')
       print(c)
       10 10 10
 [6]: print(a, b, c)
       10 10 10
 [7]: a, b, c = 10, 20, 30
       print(a, b, c)
       10 20 30
[10]: x = input('enter val1: ')
       y = input('Enter val2: ')
       print(x + y)
       print(type(x), type(y))
      enter val1: 10
      Enter val2: 20
       1020
      <class 'str'> <class 'str'>
 [9]: print('hello' + 'coders')
      hellocoders
[11]: x = int(input('enter val1: '))
       y = int(input('Enter val2: '))
       print(x + y)
```

```
enter val1: 10
      Enter val2: 20
       30
       <class 'int'> <class 'int'>
[13]: x = input('Enter values: ')
       print(x)
       print(type(x))
      Enter values: 10 20 30 40 50
       10 20 30 40 50
       <class 'str'>
[14]: "10 20 30 40 50"
[14]: '10 20 30 40 50'
[17]: x = input('Enter values: ').split()
       vals = []
       print(x)
       for i in x:
            vals.append(int(i))
       print(vals)
      Enter values: 10 20 30 40 50
       ['10', '20', '30', '40', '50']
       [10, 20, 30, 40, 50]
[18]: vals = [int(i) for i in input('Enter values: ').split()] print(vals)
      Enter values: 10 20 30 40 50
       [10, 20, 30, 40, 50]
       1 List
      li = [] or li = list()
[19]: Ii = [1, 2, 3, 4, 5, 6]
       print(li)
       print(type(li))
       [1, 2, 3, 4, 5, 6]
       <class 'list'>
```

```
[22]: li = [9, 6, 5, 0, 8, 2, 12, 10] print(li[0])
       print(li[-1])
       print(li[-2])
       9
       10
       12
       1.1 Slicing operation
[27]: print(li)
       print(li[1:5]) #li[start : end]
       print(li[1 :])
       print(li[:5])
       print(li[:])
       [9, 6, 5, 0, 8, 2, 12, 10]
       [6, 5, 0, 8]
       [6, 5, 0, 8, 2, 12, 10]
       [9, 6, 5, 0, 8]
       [9, 6, 5, 0, 8, 2, 12, 10]
[31]: print(li)
       print(li[::1]) #li[start : end : step] print(li[::2])
       print(li[::3])
       print(li[::-1])
       [9, 6, 5, 0, 8, 2, 12, 10]
       [9, 6, 5, 0, 8, 2, 12, 10]
       [9, 5, 8, 12]
       [9, 0, 12]
       [10, 12, 2, 8, 0, 5, 6, 9]
       1.2 List Methods
 [36]: li = [9, 6, 5, 0, 8, 2, 12, 10] li.insert(0,
                       15)
       print(li)
       li.insert(15, 25)
       print(li)
       li.insert(-20, 'hello')
       print(li)
       [15, 9, 6, 5, 0, 8, 2, 12, 10]
       [15, 9, 6, 5, 0, 8, 2, 12, 10, 25]
       ['hello', 15, 9, 6, 5, 0, 8, 2, 12, 10, 25] 3
```

[38]: print(li)

```
li.pop()
print(li)
li.pop(2)
print(li)
li.remove('hello')
print(li)

['hello', 15, 6, 5, 0, 8, 2, 12, 10] ['hello', 15, 6, 5, 0, 8, 2, 12]
['hello', 15, 5, 0, 8, 2, 12]
[15, 5, 0, 8, 2, 12]
```

[]: