Mar10 DSA Day 3

March 10, 2021

1 Functions

```python
[2]: def fun():
         print('hello coders')
         return

     fun()
```

```
hello coders
```

```python
[3]: def fun(a):
         print('Hello', a)
         return
     fun('Raj')
```

```
Hello Raj
```

```python
[5]: def fun(a, b):
         return a + b

     print(fun(10, 20))
```

```
30
```

2 Methods & Data Members

```python
[19]: class Test:
          def __init__(self, a): #constructor
              self.a = a
          def show(self, x):
              print("Method", self.a, x)


      ob = Test(25)
      ob.show(10) # Test.show(ob)
```

```
Method 25 10
```

3 Netflix Movie List

```python
[23]: class MovieNode:
    def __init__(self, movieName, relDate):
        self.movieName = movieName
        self.relDate = relDate
        self.next = None
        return

class NetflixMovieList:
    def __init__(self):
        self.head = None

    def addMovie(self, movieName, relDate):
        new = MovieNode(movieName, relDate)
        if self.head == None:
            self.head = new
            return
        new.next = self.head
        self.head = new
        return

    def displayMovies(self):
        if self.head == None:
            print("No movies to show right now")
            return
        temp = self.head

        while(temp != None):
            print(temp.movieName, temp.relDate, '->', end = "")
            temp = temp.next
        print('None')
        return


movie_list = NetflixMovieList()
movie_list.addMovie('Iron Man', '12th June 2010')
movie_list.addMovie('Thor', '15th July 2010')
movie_list.displayMovies()
```

Thor 15th July 2010 ->Iron Man 12th June 2010 ->None

```python
[ ]:
```