Exercise 12

May 16, 2022

1 1

Ubah fungsiku menjadi pure function!

```
[6]: def fungsiku(L):
         def check_genap(l):
             return l % 2 == 0
         for i in range(len(L)):
             if check_genap(L[i]):
                 L[i] = L[i] / 2
             else:
                 L[i] = L[i] * n + 1
         return L
```

```
[16]: n = 3
      L = [5,6,7,8]
      print(fungsiku(L))
      print(L)
```

```
[16, 3.0, 22, 4.0]
[16, 3.0, 22, 4.0]
```

```
[18]: # change function fungsiku to pure function using map
      def fungsiku_map(L):
          def check_genap(l):
              return l % 2 == 0
          return map(lambda x: x / 2 if check_genap(x) else x * n + 1, L)
```

```
[19]: n = 3
      L = [5,6,7,8]
      print(list(fungsiku_map(L)))
```

```
[16, 3.0, 22, 4.0]
```

2 2

Ubah fungsiku2 menjadi pure function!

```
[8]: def fungsiku2(L):
         def check_faktor(l):
             return l % n == 0
         for i in range(len(L)):
             if check_faktor(L[i]):
                 L[i] = L[i] / 2
             else:
                 L[i] = L[i] * n + 1
         return L
```

```
[9]: n = 3
     L = [5,6,7,8]
     print(fungsiku2(L))
     print(L)
```

```
[16, 3.0, 22, 25]
[16, 3.0, 22, 25]
```

```
[10]: # change function fungsiku2 to pure function using map
      def fungsiku2_map(L):
          def check_faktor(l):
              return l % n == 0
          return map(lambda x: x / 2 if check_faktor(x) else x * n + 1, L)
```

```
[13]: n = 3
      L = [5,6,7,8]
      print(list(fungsiku2_map(L)))
```

```
[16, 3.0, 22, 25]
```

3 3

Apakah isi dalam tupel tup ada yang dapat diubah?

tup = ([3, 4, 5], 'myname')

```
[ ]: tup = ([3, 4, 5], 'myname')
```

Tuple mirip dengan list. Bedanya, tuple bersifat immutable, sehingga anggotanya tidak bisa diubah