Untitled

April 6, 2023

0.1 ARGS and KWARGS

```python
[19]: ## arguments and keyword arguments
```

```python
[3]: def test1(*args):
         return args
```

```python
[5]: test1(2)
```

```
[5]: (2,)
```

```python
[6]: test1(1,2,3,4,5)
```

```
[6]: (1, 2, 3, 4, 5)
```

```python
[9]: ## *args can have many number of multiple arguements!
     ## args is not constant .
```

```python
[11]: def test2(*punith):
          return punith
```

```python
[13]: test2(1)
```

```
[13]: (1,)
```

```python
[16]: test2(1,2,45,7,2.,2,3,2,2.2,True,"pwskills")
```

```
[16]: (1, 2, 45, 7, 2.0, 2, 3, 2, 2.2, True, 'pwskills')
```

```python
[ ]:
```

```python
[17]: def test3(*args,a):
          return args,a
```

```python
[20]: test3(1,2,3,4,5, a="Punith")
```

```
[20]: ((1, 2, 3, 4, 5), 'Punith')
```

```
[24]: ## example
```

```
[21]: def test4(*args):
          l=[]
          for i in args:
              if type(i)==list:
                  l.append(i)
          return l
```

```
[23]: test4(1,2,3,4,5,[1,2,3,45,6,8],"punith",["pw skills" ,"datascience masters"])
```

```
[23]: [[1, 2, 3, 45, 6, 8], ['pw skills', 'datascience masters']]
```

```
[31]: ## key value arguements are written in the form of **
```

```
[25]: def test5(**kwargs):
          return kwargs
```

```
[28]: test5()
```

```
[28]: {}
```

```
[30]: test5(a=56,b=89,c=[1,2,5,8,9],d=(1,7,8,5,45,4,5))
```

```
[30]: {'a': 56, 'b': 89, 'c': [1, 2, 5, 8, 9], 'd': (1, 7, 8, 5, 45, 4, 5)}
```

```
[38]: def test6(**kwargs):
          for i in kwargs.keys():
              if type (kwargs[i])==list:
                  return i,kwargs
```

```
[39]: test6(a=56,b=89,c=[1,2,5,8,9],d=(1,7,8,5,45,4,5) )
```

```
[39]: ('c', {'a': 56, 'b': 89, 'c': [1, 2, 5, 8, 9], 'd': (1, 7, 8, 5, 45, 4, 5)})
```

```
[ ]:
```

```
[40]: def test7(*args,**kwargs):
          return args,kwargs
```

```
[41]: test7(2,1,4,5,6, a=56,b=89)
```

```
[41]: ((2, 1, 4, 5, 6), {'a': 56, 'b': 89})
```

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[ ]:
```

```
[ ]:
```