Function part 1 eng

February 7, 2023

[1]:
```
print("this is my prog")
```

```
this is my prog
```

[2]:
```
l = [1,2,3,4,5]
```

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

[3]: 5

[5]:
```
def test():
    pass
```

[6]:
```
def test1():
    print("this is my very very first fun")
```

[7]:
```
test1()
```

```
this is my very very first fun
```

[8]:
```
test1()
```

```
this is my very very first fun
```

[9]:
```
test1() + "sudh"
```

```
this is my very very first fun
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[9], line 1
----> 1 test1() + "sudh"

TypeError: unsupported operand type(s) for +: 'NoneType' and 'str'
```

[10]:
```
def test2():
    return "this is my fun with return "
```

[11]:
```
test2()
```

[11]: 'this is my fun with return '

[12]:
```
test2() + "sudh"
```

[12]: 'this is my fun with return sudh'

[14]:
```
def test3():
    return 1, 4, "pwskills" , 34.56
```

[15]:
```
test3()
```

[15]: (1, 4, 'pwskills', 34.56)

[16]:
```
a = 1,2,3,4,5
```

[17]:
```
a
```

[17]: (1, 2, 3, 4, 5)

[18]:
```
a,b,c,d = 1,2,34.56,True
```

[19]:
```
a
```

[19]: 1

[20]:
```
b
```

[20]: 2

[21]:
```
c
```

[21]: 34.56

[22]:
```
d
```

[22]: True

[23]:
```
test3()
```

[23]: (1, 4, 'pwskills', 34.56)

[24]:
```
test3()[0]
```

[24]: 1

[26]:
```
test3()[1]
```

[26]: 4

[27]:
```
test3()[2]
```

[27]: 'pwskills'

[29]:
```
a,b,c,d = test3()
```

[30]:
```
a
```

[30]: 1

[31]:
```
b
```

[31]: 4

[32]:
```
c
```

[32]: 'pwskills'

[33]:
```
d
```

[33]: 34.56

[34]:
```
def test4():
    a = 3*4 +5
    return a
```

[36]:
```
type(test4())
```

[36]: int

[37]:
```
def test5(a,b):
    c = a +b
    return c
```

[39]:
```
test5(1,3)
```

[39]: 4

[41]:
```
test5("sudh" , "kumar" )
```

[41]: 'sudhkumar'

[42]:
```
test5([1,2,3,4] , [4,5,6,7,8])
```

[42]:
```
[1, 2, 3, 4, 4, 5, 6, 7, 8]
```

[43]:
```
test5(b = "sudh " , a = "kumar")
```

[43]:
```
'kumarsudh '
```

[44]:
```
l = [1,2,3,4,5,"sudh" , "pwskills" , [1,2,3,34,45]]
```

[45]:
```
#create a function which will take list as a input and give me a final list␣
↪with all the numeric value
```

[46]:
```
def test6(a):
    n  = []
    for i in a :
        if type(i) == int or type(i) == float :
            n.append(i)
    return n
```

[47]:
```
test6(l)
```

[47]:
```
[1, 2, 3, 4, 5]
```

[48]:
```
l
```

[48]:
```
[1, 2, 3, 4, 5, 'sudh', 'pwskills', [1, 2, 3, 34, 45]]
```

[49]:
```
def test7(a) :
    n = []
    for i in a :
        if type(i) == list :
            for j in i :
                if type(j) == int or type(j) == float :
                    n.append(j)
        else :
            if type(i) == int or type(i) == float :
                n.append(i)
    return n
```

[50]:
```
test7(l)
```

[50]:
```
[1, 2, 3, 4, 5, 1, 2, 3, 34, 45]
```

[51]:
```
l
```

[51]: [1, 2, 3, 4, 5, 'sudh', 'pwskills', [1, 2, 3, 34, 45]]

[ ]: