

assignment1

August 27, 2023

```
[2]: s = "kshitij"
```

```
[3]: type(s)
```

```
[3]: str
```

```
[4]: l = ["kshitij", "18", "data science", "2.0", True]
```

```
[5]: type(l)
```

```
[5]: list
```

```
[6]: n = 23.567
```

```
[7]: type(n)
```

```
[7]: float
```

```
[8]: t = ("kshitij", 18, "data science", 2.0, True)
```

```
[9]: type(t)
```

```
[9]: tuple
```

```
[10]: var1 = ''
```

```
[11]: type(var1)
```

```
[11]: str
```

```
[12]: var2 = ' [DS,ML,Python] '
```

```
[13]: type(var2)
```

```
[13]: str
```

```
[14]: var3 = ['DS', 'ML', 'Python']
```

```
[15]: type(var3)
```

```
[15]: list
```

```
[16]: var4 = 1
```

```
[17]: type(var4)
```

```
[17]: int
```

```
[18]: a = 20  
      b = 10  
      c = 20/10
```

```
[19]: c
```

```
[19]: 2.0
```

```
[20]: a1 = 20  
      b1 = 10  
      c1 = 20%10
```

```
[21]: c1
```

```
[21]: 0
```

```
[22]: a2 = 20  
      b2 = 10  
      c2 = 20//10
```

```
[23]: c2
```

```
[23]: 2
```

```
[24]: a4 = 20  
      b4 = 10  
      c4 = 20**10
```

```
[25]: c4
```

```
[25]: 10240000000000
```

```
[26]: l1 = ["kshitij", 18, 15+4j, True, [1,2,3,4,4], (2,4,5,6), 23.456,   
           ↪ [1,2,3,(4,5,6),7,9], False, "me"]
```

```
[30]: for i in l1:  
      print(i)
```

```
kshitij
18
(15+4j)
True
[1, 2, 3, 4, 4]
(2, 4, 5, 6)
23.456
[1, 2, 3, (4, 5, 6), 7, 9]
False
me
```

```
[1]: a = int(input())
      b = int(input())
      count = 0
      while a%b == 0:
          a = a//b
          count+=1
      if count>0:
          print(f"{a} is divisible by {b} a total of {count} times")
      else:
          print(f"{a} is not divisible by {b}")
```

23

34

23 is not divisible by 34

```
[2]: 12 = [1,2,3,4,6,8,9,21,12,45,67,89,90,45,32,33,99,66,54,30,5,6,7,8,9]
```

```
[4]: for i in 12:
      if i%3 == 0:
          print("divisible by 3")
      else:
          print("not divisible by 3")
```

not divisible by 3

not divisible by 3

divisible by 3

not divisible by 3

divisible by 3

not divisible by 3

divisible by 3

divisible by 3

divisible by 3

divisible by 3

not divisible by 3

not divisible by 3

divisible by 3

```
divisible by 3
not divisible by 3
divisible by 3
divisible by 3
divisible by 3
divisible by 3
divisible by 3
not divisible by 3
divisible by 3
not divisible by 3
not divisible by 3
divisible by 3
```

```
[5]: 12
```

```
[5]: [1,
      2,
      3,
      4,
      6,
      8,
      9,
      21,
      12,
      45,
      67,
      89,
      90,
      45,
      32,
      33,
      99,
      66,
      54,
      30,
      5,
      6,
      7,
      8,
      9]
```

```
[6]: 12[3] = 5
```

```
[7]: 12
```

```
[7]: [1,
      2,
```

```
3,  
5,  
6,  
8,  
9,  
21,  
12,  
45,  
67,  
89,  
90,  
45,  
32,  
33,  
99,  
66,  
54,  
30,  
5,  
6,  
7,  
8,  
9]
```

```
[11]: t1 = ("kshitij", 18, "data science", 2.0, True)
```

```
[12]: t1[1] = 19
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[12], line 1  
----> 1 t1[1] = 19  
  
TypeError: 'tuple' object does not support item assignment
```

```
[ ]:
```