pbasics

May 12, 2023

[21]:
```
a="Hello world"
b=[1,2,3,4,5]
c=34.567
d=(1,34,56)
print(a)
print(b)
print(c)
print(d)
```

```
Hello world
[1, 2, 3, 4, 5]
34.567
(1, 34, 56)
```

[19]:
```
var1=" "
print(type(var1))
var2="[DS,ML,Python]"
print(type(var2))
var3=["DS","ML","Python"]
print(type(var3))
var4=1
print(type(var4))
```

```
<class 'str'>
<class 'str'>
<class 'list'>
<class 'int'>
```

[22]:
```
#use of /
#it is used for division
print(4/2)
#use of %
#it is used for modular division
print(65%2)
#usage of //
#it is used for floor division
print(5//2)
#usage of **
```

```
#it is used for exponentiation
print(5**2)
```

```
2.0
1
2
25
```

[24]:
```
a=[1,2+3j,3,True,5,6,"abcd",8.56,9,0]
for i in a:
    print(i,type(i))
```

```
1 <class 'int'>
(2+3j) <class 'complex'>
3 <class 'int'>
True <class 'bool'>
5 <class 'int'>
6 <class 'int'>
abcd <class 'str'>
8.56 <class 'float'>
9 <class 'int'>
0 <class 'int'>
```

[12]:
```
a=12
b=2
count=0
while a%b==0:
    a=a/b
    count=count+1
print("A is divisible by B and it is divisible by %d times"%count)
```

```
A is divisible by B and it is divisible by 2 times
```

[14]:
```
list=[25]
for i in list:
    if (i%3)==0:
        print("%d is divisible by 3"%i)
    else:
        print("%d is not divisible by 3"%i)
```

```
25 is not divisible by 3
```

[16]:
```
#mutabilty means we change or append values to it
list=[1,2,3,4]
print(list)
list[2]=0
print(list)
#immutabity means we cannnot change or append values to it
```

```
a="hello"
a[2]="a"
print(a)
```

```
[1, 2, 3, 4]
[1, 2, 0, 4]
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[16], line 8
      6 #immutabity means we cannnot change or append values to it
      7 a="hello"
----> 8 a[2]="a"
      9 print(a)

TypeError: 'str' object does not support item assignment
```

[ ]:

[ ]:

[ ]:

[ ]:

[ ]: