intro_

May 20, 2024

[1]:
```
num = 10
print(type(num))
```

```
<class 'int'>
```

[2]:
```
"convert num to string"
num=  str(num)
print(type(num), num)
```

```
<class 'str'> 10
```

[4]:
```
name='noha'
name = bool(name)
print(name)
```

```
True
```

[5]:
```
year = '2024'
print(type(year), year)
```

```
<class 'str'> 2024
```

[6]:
```
year = int(year)
print(type(year), year)
```

```
<class 'int'> 2024
```

[7]:
```
name='noha'
name = int(name)
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
Cell In[7], line 2
      1 name='noha'
----> 2 name = int(name)

ValueError: invalid literal for int() with base 10: 'noha'
```

[8]:
```
grade= '44.44'
grade = float(grade)
print(grade, type(grade), grade)
```

```
44.44 <class 'float'> 44.44
```

Arthimetic operators

[9]:
```
num1= 10
```

[10]:
```
num2= 20
res = num1 + num2
print(res)
```

```
30
```

[13]:
```
num3 = 10//3  # integer result of the division
print(num3)
```

```
3
```

[15]:
```
print(10/3)  # 3.333333
print(10%3) # 1
```

```
3.3333333333333335
1
```

[11]:
```
year = 2024 # assign variable to a value
```

[16]:
```
num =11
print(num)
num +=10
print(num)
```

```
11
21
```

[17]:
```
num1=4
num2=3
res = num1 ** num2
print(res)
```

```
64
```

[18]:
```
num1 **= 4
```

[19]:
```
print(num1)
```

```
256
```

[20]:
```
name = 'ahmed'
if name !='ahmed':
    print("found")
```

[ ]:
```
if not(name=='ahmed'):
    print("--- not found")
```

[21]:
```
grade =90
course = 'python'

if not(grade!=90 and course!='python'):
    print("--failed")
```

```
--failed
```

[22]:
```
res = 10 and 'iti'  # True
print(res)

print(10 and 'iti')
```

```
iti
iti
```

[23]:
```
print(bool(10))
```

```
True
```

[24]:
```
print(bool('iti'))
```

```
True
```

[25]:
```
""" and operator --> make sure that all the expression parts
represent True
10 and iti   ---> iti represent True
"""
```

[25]:
```
' and operator --> make sure that all the expression parts \nrepresent True \n10
and iti   ---> iti represent True\n'
```

[26]:
```
print(10 and 0 and 'iti')
```

```
0
```

[27]:
```
day = 'monday'
if day=='sunday':
    print("-- this is the beginning of the week")
elif day =='firday':
    print("--End of the week")
else:
    print("--it seems impossible until it is done")
```

```
--it seems impossible until it is done
```

[ ]: