In [2]:
```
'welcome to nit'
```

Out[2]:
```
'welcome to nit'
```

In [2]:
```
2 + 3
```

Out[2]:
```
5
```

In [8]:
```
1/0
```

```
---------------------------------------------------------------------------
ZeroDivisionError                         Traceback (most recent call last)
Cell In[8], line 1
----> 1 1/0

ZeroDivisionError: division by zero
```

In [9]:
```
0/1
```

Out[9]:
```
0.0
```

In [12]:
```
import sys
sys.version
```

Out[12]:
```
'3.11.7 | packaged by Anaconda, Inc. | (main, Dec 15 2023, 18:05:47) [MSC v.191
6 64 bit (AMD64)]'
```

2nd Nov

In [5]:
```
a = '5.5'
type(a)
```

Out[5]:
```
str
```

In [10]:
```
def greet():
    print('hello')
greet();

def greet():
    print('hello')
greet();

def greet():
    print('hello')
greet();

def greet():
    print('hello')
greet();
```

```
hello
hello
hello
hello
```

In [11]:
```
def greet():
    print('hello')
greet();

greet();

greet();

greet();
```

```
hello
hello
hello
hello
```

python identifier or python variable or python object

In [3]:
```
a = 5.5
a
```

Out[3]:
```
5.5
```

In [4]:
```
type(a)
```

Out[4]:
```
float
```

In [14]:
```
id(a)
```

Out[14]:
```
140708443177896
```

In [15]:
```
a = 6
a
```

Out[15]:
```
6
```

In [16]:
```
id(a)
```

Out[16]:
```
140708443177928
```

4th NOV

In [5]:
```
v = 5
v
```

Out[5]:
```
5
```

In [6]:
```
5 = v
```

```
  Cell In[6], line 1
    5 = v
    ^
SyntaxError: cannot assign to literal here. Maybe you meant '==' instead of '='?
```

In [14]:
```
id(v)
```

Out[14]:
```
140725538112424
```

In [15]:
```
v
```

Out[15]:
```
5
```

In [16]:
```
i = 5
i
```

Out[16]:
```
5
```

In [17]:
```
print(v)
print(i)
```

```
5
5
```

In [18]:
```
print(id(v))
print(id(i))
```

```
140725538112424
140725538112424
```

In [19]:
```
o = 6
o
```

Out[19]:
```
6
```

In [25]:
```
print(id(v)) # addres of v variable
print(id(i)) # address of i variable or
print(id(o))
```

```
140725538112424
140725538112424
140725538112456
```

In [ ]:
```
write python program to add 2 variabel and i should get of  10 ?
```

In [23]:
```
a = 5
b = 5
a + b
```

Out[23]:
```
10
```

In [26]:
```
v
```

Out[26]:
```
5
```

rule to define python identifer

In [32]:
```
nit = 21
NIT
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[32], line 2
      1 nit = 21
----> 2 niT

NameError: name 'niT' is not defined
```

In [29]:
```
nit
```

Out[29]:
```
21
```

In [33]:
```
2v = 50
2v
```

```
  Cell In[33], line 1
    2v = 50
    ^
SyntaxError: invalid decimal literal
```

In [34]:
```
v2 = 50
v2
```

Out[34]:
```
50
```

In [37]:
```
v3* = 78
```

```
  Cell In[37], line 1
    v3* = 78
        ^
SyntaxError: invalid syntax
```

In [40]:
```
v3_ = 67
v3_
```

Out[40]:
```
67
```

In [43]:
```
import keyword
len(keyword.kwlist)
```

Out[43]:
```
35
```

In [44]:
```
and = 78
```

```
  Cell In[44], line 1
    and = 78
    ^
SyntaxError: invalid syntax
```

In [55]:
```
continue = 7
```

```
  Cell In[55], line 1
    continue = 7
             ^
SyntaxError: invalid syntax
```

In [56]:
```
True = 45
```

```
  Cell In[56], line 1
    True = 45
    ^
SyntaxError: cannot assign to True
```

In [59]:
```
vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv = 100
vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv
```

Out[59]:
```
100
```

In [ ]:

In [ ]:

In [ ]:

In [13]:
```
name = 'nit'
student = 10.30

print(student)
print(name)
```

```
10.3
nit
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]: