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```
In [14]: import sys  
sys.version
```

```
Out[14]: '3.12.7 | packaged by Anaconda, Inc. | (main, Oct 4 2024, 13:17:27) [MSC v.192  
9 64 bit (AMD64)]'
```

```
In [15]: 3
```

```
Out[15]: 3
```

```
In [16]: 2
```

```
Out[16]: 2
```

```
In [17]: 3+2
```

```
Out[17]: 5
```

```
In [18]: 3-2
```

```
Out[18]: 1
```

```
In [19]: 3*2
```

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

```
In [20]: 3**2
```

```
Out[20]: 9
```

```
In [21]: 10/5
```

```
Out[21]: 2.0
```

```
In [22]: 10//5
```

```
Out[22]: 2
```

Work with String

```
In [24]: NareshIT
```

```
-----  
NameError                                Traceback (most recent call last)  
Cell In[24], line 1  
----> 1 NareshIT  
  
NameError: name 'NareshIT' is not defined
```

```
In [ ]: 'NareshIT'
```

```
In [ ]: "NareshIT"
```

Variable

```
In [50]: a = 5  
a
```

```
Out[50]: 5
```

```
In [52]: type(a)
```

```
Out[52]: int
```

```
In [54]: b = 'NIT'  
b
```

```
Out[54]: 'NIT'
```

```
In [56]: type(b)
```

```
Out[56]: str
```

```
In [58]: c = 3.14  
c
```

```
Out[58]: 3.14
```

```
In [60]: type(c)
```

```
Out[60]: float
```

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```
In [63]: import sys  
sys.version
```

```
Out[63]: '3.12.7 | packaged by Anaconda, Inc. | (main, Oct 4 2024, 13:17:27) [MSC v.192  
9 64 bit (AMD64)]'
```

```
In [65]: nit = 15  
NIT
```

```
-----  
NameError                                Traceback (most recent call last)  
Cell In[65], line 2  
      1 nit = 15  
----> 2 NIT  
  
NameError: name 'NIT' is not defined
```

```
In [67]: nit
```

```
Out[67]: 15
```

```
In [69]: 1a = 116  
1a
```

Cell In[69], line 1

```
1a = 116
```

^

SyntaxError: invalid decimal literal

```
In [71]: a1 = 117
a1
```

Out[71]: 117

```
In [73]: nit$ = 18
nit$
```

Cell In[73], line 1

```
nit$ = 18
```

^

SyntaxError: invalid syntax

```
In [75]: x_train, x_test, y_train, y_test = 80, 20, 70, 30
```

```
In [77]: x_train
x_test
y_train
y_test #its print the last most cell variable value
```

Out[77]: 30

```
In [79]: print(x_train)
```

80

```
In [81]: print(x_train)
print(x_test)
print(y_train)
print(y_test)
```

80

20

70

30

```
In [83]: print(x_train, x_test, y_train, y_test)
```

80 20 70 30

```
In [85]: import keyword
keyword.kwlist
```

```
Out[85]: ['False',
          'None',
          'True',
          'and',
          'as',
          'assert',
          'async',
          'await',
          'break',
          'class',
          'continue',
          'def',
          'del',
          'elif',
          'else',
          'except',
          'finally',
          'for',
          'from',
          'global',
          'if',
          'import',
          'in',
          'is',
          'lambda',
          'nonlocal',
          'not',
          'or',
          'pass',
          'raise',
          'return',
          'try',
          'while',
          'with',
          'yield']
```

```
In [87]: if = 58
         if
```

```
Cell In[87], line 1
      if = 58
      ^
SyntaxError: invalid syntax
```

```
In [89]: If = 54
         If
```

```
Out[89]: 54
```

```
In [91]: a3 = 78
         a4 = 79
```

```
In [93]: print(a3,a4)
```

```
78 79
```

```
In [95]: del a3
```

```
In [97]: a3
```

```
-----  
NameError                                Traceback (most recent call last)  
Cell In[97], line 1  
----> 1 a3  
  
NameError: name 'a3' is not defined
```

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```
In [100... print (3+2)
```

5

```
In [102... print (3-2)
```

1

```
In [104... print(type(10))
```

<class 'int'>

```
In [106... print(type(1+5j))
```

<class 'complex'>

```
In [108... print(type(3.14))
```

<class 'float'>

```
In [110... print(type([1,2,3]))
```

<class 'list'>

```
In [112... print(type(True))
```

<class 'bool'>

Work with String

```
In [115... print ('mohd mujahed')
```

mohd mujahed

```
In [117... print(len(mohd mujahed))
```

```
Cell In[117], line 1  
    print(len(mohd mujahed))  
          ^  
SyntaxError: invalid syntax. Perhaps you forgot a comma?
```

```
In [119... k = 'mohd mujahed'  
print(k)
```

mohd mujahed

```
In [121... print(len(k))
```

12

```
In [123... print(first_letter)
```

```
-----  
NameError                                Traceback (most recent call last)  
Cell In[123], line 1  
----> 1 print(first_letter)  
  
NameError: name 'first_letter' is not defined
```

```
In [125... first_name = 'mohd'  
          second_name = 'mujahed'  
          space = ' '  
          full_name = 'mohd mujahed'
```

```
In [127... print(first_name + space + second_name)  
  
mohd mujahed
```

```
In [129... print(full_name)  
  
mohd mujahed
```

```
In [131... print(len(full_name))  
  
12
```

```
In [133... print(len(first_name))  
  
4
```

```
In [135... print(len(second_name))  
  
7
```

```
In [137... print(len(first_name) > len(second_name))  
  
False
```

```
In [139... print(len(first_name) < len(second_name))  
  
True
```

```
In [141... print(len(full_name))  
  
12
```

```
In [143... print(full_name)  
  
mohd mujahed
```

```
In [147... print(first_name)  
  
mohd
```

```
In [149... print(second_name)  
  
mujahed
```

```
In [151... print(full_name)  
  
mohd mujahed
```

```
In [155... language = 'python'
```

```
In [157... a,b,c,d,e,f = language
```

Unpacking Sequence characters

```
In [159... print(a)
print(b)
print(c)
print(d)
print(e)
print(f)
```

p
y
t
h
o
n

Accessing characters in strings by index

```
In [165... language = 'python'
```

```
In [167... first_letter = language[0]
```

```
In [169... print(first_letter)
```

p

```
In [171... second_letter = language[1]
print(second_letter)
```

y

```
In [173... last_index = len(language) -1
```

```
In [181... last_letter = language[last_index]
print(last_letter)
```

n

slicing

```
In [184... language = 'python'
```

```
In [188... first_three = language[0:3]
last_three = language[3:6]
```

```
In [190... print(last_three)
```

hon

```
In [192... print(first_three)
```

pyt

```
In [194... print(first_three + last_three)
```

python

```
In [196... last_three = language[-3:]
print(last_three)
```

hon

Skipping character while splitting Python strings

```
In [201... language = 'python'
```

```
In [205... ski = language[0:6:2]  
print(ski)
```

pto

```
In [211... print('Hello I am Mohd Mujahed. \n I had completed my Graduation from JNTUH ')
```

Hello I am Mohd Mujahed.

I had completed my Graduation from JNTUH

```
In [215... print('Hi i hope you are enjoying the code. \t These are the basic codes i have
```

Hi i hope you are enjoying the code. These are the basic codes i have execute
d.

```
In [219... name = 'mohd mujahed'
```

```
In [221... print(name.capitalize())
```

Mohd mujahed

```
In [225... print(name.count('m'))
```

2

```
In [227... print(name.count('0'))
```

0

```
In [229... print(name.endswith('ja'))
```

False

```
In [233... print(name.endswith('mo'))
```

False

```
In [239... name = 'mohd mujahed'  
print(name.find('m'))
```

0

```
In [241... print(name.swapcase())
```

MOHD MUJAHED

```
In [ ]:
```