

interpreter - Execute the code line by line, compliler - Execute entire code at one run.

```
In [2]: name = 'Ravitej' #variables are case sensitive
name
```

Out[2]: 'Ravitej'

```
In [4]: 2name = "oggi" #variables nerver starts with a decimal
2name
```

```
Cell In[4], line 1
  2name = "oggi"
    ^
SyntaxError: invalid decimal literal
```

```
In [6]: name2="oggi" #but ends with digit
name2
```

Out[6]: 'oggi'

```
In [8]: name$='tej' #Special symbols are not allowed except _
name$
```

```
Cell In[8], line 1
  name$='tej' #Special symbols are not allowed
    ^
SyntaxError: invalid syntax
```

Machine learning model we will use x_train, x_test,y_train,y_test

```
In [38]: x_train, x_test, y_train, y_test = 200, 100, 75, 50 # print function will help to get output together)
x_train
x_test
y_train
y_test
```

Out[38]: 50

print - function - in functions always ends with ()

```
In [36]: print(x_train)
print(x_test)
print(y_test)
print(y_train)
```

200
100
50
75

keywords or reserved words (never be a variable)

```
In [44]: import keyword
keyword.kwlist
```

Out[44]: ['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 [46]: len(keyword.kwlist) # 35 keywords in python , keywords has special meaning
```

Out[46]: 35

```
In [67]: a=20
b=25
```

```
In [69]: print(a)
print(b)
```

20
25

```
In [71]: del a # delete from memory
```

```
In [73]: print(a)
```

```
-----
NameError                                Traceback (most recent call last)
Cell In[73], line 1
----> 1 print(a)

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

```
In [75]: from = 45 # we can't use Keywords as variable
from
```

```
Cell In[75], line 1
  from = 45
    ^
SyntaxError: invalid syntax
```

```
In [77]: From = 45 # if we change the format i.e uppercase letter it will become Variable)
From
```

Out[77]: 45

True, False, None are upercase

```
In [79]: a= True # keyword
a
```

Out[79]: True

```
In [83]: a="true" # string  
a
```

```
Out[83]: 'true'
```