8:30 AM -- BASIC PYTHON PROGRAMMING TODAY

work with numbers

```
In [2]:
           1 3
Out[2]: 3
In [3]:
             2
Out[3]: 2
In [4]:
           1 | 3 + 2
Out[4]: 5
In [5]:
           1 3 - 2
Out[5]: 1
In [6]:
             3 * 2
Out[6]: 6
           1 3 ** 2
In [7]:
Out[7]: 9
In [8]:
           1 10 / 5
Out[8]: 2.0
In [9]:
             10 // 5
Out[9]: 2
In [10]:
           1 # work with string
```

```
In [11]:
             nareshit
                                                    Traceback (most recent call last)
         ~\AppData\Local\Temp\ipykernel_368\2904615919.py in <module>
         ---> 1 nareshit
         NameError: name 'nareshit' is not defined
 In [ ]:
              'nareshit'
             " nareshit "
In [12]:
Out[12]: ' nareshit '
              ''' naresh it '''
In [13]:
Out[13]: ' naresh it '
         variable = object
In [14]:
           1 v = 5 \# v - variable \& 5 for value
Out[14]: 5
In [15]:
             type(v)
Out[15]: int
In [16]:
             v1 = 'nit'
           1
           2
             v2
         NameError
                                                    Traceback (most recent call last)
         ~\AppData\Local\Temp\ipykernel_368\3818531641.py in <module>
               1 v1 = 'nit'
         ----> 2 v2
         NameError: name 'v2' is not defined
In [17]:
           1 v1
Out[17]: 'nit'
```

26 Th

```
In [18]:
           1 a = 5.5
           2 type(a)
Out[18]: float
In [19]:
              import sys
              syst.version
                                                     Traceback (most recent call last)
         ~\AppData\Local\Temp\ipykernel_368\13462845.py in <module>
                1 import sys
         ----> 2 syst.version
         NameError: name 'syst' is not defined
In [20]:
           1 | nit = 15
             NIT
         NameError
                                                     Traceback (most recent call last)
         ~\AppData\Local\Temp\ipykernel 368\282885081.py in <module>
                1 \text{ nit} = 15
         ----> 2 NIT
         NameError: name 'NIT' is not defined
In [21]:
              nit
Out[21]: 15
In [22]:
             1a = 67
              1a
           File "C:\Users\Lenovo\AppData\Local\Temp\ipykernel_368\3794310268.py", line 1
              1a = 67
         SyntaxError: invalid syntax
In [23]:
           1 a1 = 67
              a1
Out[23]: 67
```

```
In [24]:
           1 nit$ = 89
           2 nit$
           File "C:\Users\Lenovo\AppData\Local\Temp\ipykernel_368\629152561.py", line 1
             nit$ = 89
         SyntaxError: invalid syntax
In [25]:
           1 x_train, x_test, y_train, y_test = 80, 20, 70, 30
In [26]:
          1 x_train
           2 x_test
           3 y_train
           4 y_test
Out[26]: 30
In [27]:
           1 print(x_train)
           2 print(x_test)
           3 print(y_train)
           4 print(y_test)
         80
         20
         70
         30
```

```
In [28]:
           1 import keyword
           2 keyword.kwlist
Out[28]: ['False',
           'None',
           'True',
           '__peg_parser__',
           '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 [29]:
           1 if = 90
           2 if
            File "C:\Users\Lenovo\AppData\Local\Temp\ipykernel_368\3964871498.py", line 1
              if = 90
          SyntaxError: invalid syntax
In [30]:
           1 a10 = 78
           2 a9 = 89
```

```
In [31]:
              print(a10)
              print(a9)
           2
         78
         89
In [32]:
              del a10
In [33]:
              a10
         NameError
                                                     Traceback (most recent call last)
         ~\AppData\Local\Temp\ipykernel_368\2318078267.py in <module>
         ----> 1 a10
         NameError: name 'a10' is not defined
In [34]:
              for = 90
           File "C:\Users\Lenovo\AppData\Local\Temp\ipykernel_368\2697860034.py", line 1
              for = 90
         SyntaxError: invalid syntax
In [35]:
              For = 90
           2
              For
Out[35]: 90
In [36]:
           1
              a = True
           2
Out[36]: True
              b = 'true'
In [37]:
           1
           2 b
Out[37]: 'true'
              pi = 3.17
In [38]:
           1
           2 pi
Out[38]: 3.17
In [39]:
           1
              pi = 3.20
           2 pi
Out[39]: 3.2
```

Out[40]: 90

Python variable notes

Syntax : variable_name = value

```
1 ### Type of variables
In [45]:
           1 #integer Variable
           2
           3 | age = 25
             print(age)
             print(type(age))
         25
         <class 'int'>
In [42]:
             #String variable
           3 name = 'Alice'
           4 print(name)
             print(type(name))
         Alice
         <class 'str'>
In [43]:
             #Float Variable
           3 price = 19.99
           4 print(price)
             print(type(price))
         19.99
         <class 'float'>
In [44]:
           1 | #Boolean variable
           2
           3 is_active = True
           4 print(is_active)
             print(type(is_active))
         True
         <class 'bool'>
```

1. Storing and printing a value

2. Using variable as expression

3. Changing the value of variable

4. Concatenating string

```
In [49]: 1   name1 ='Deepti' +' '+'Jaiswar'
2   print(name1)
```

Deepti Jaiswar

5. Using variables in a Calculation

```
In [51]:
          1 length = 5
          2 breath = 6
          3 area = length * breath
          4 print(area)
         30
In [54]:
             #Reassigning values to varibale
          2
          3 x=10
          4 print(x,type(x))
          5 x=20
          6 print(x,type(x))
          7 x='Deepti'
             print(x,type(x))
         10 <class 'int'>
         20 <class 'int'>
         Deepti <class 'str'>
 In [ ]:
          # Variable are completed
 In [ ]:
          1
 In [ ]:
 In [ ]:
          1
 In [ ]:
 In [ ]:
```