

1 ## Today Agenda

- 2
- 3 - Markdown format
- 4 - Python Basics
- 5 - Variables
- 6 - Keywords
- 7

- 1 - Literate Programming :
- 2 - The combination of both documentation and coding

- 1 - Markdown format
- 2 - It is a light-weight and popular markup language
- 3 - It is similar to HTML mode of markup tags
- 4

1 ### Short cut keys:

- 2 - esc + h --> To visible list of shortcut keys in markdown format
- 3

4 ### Cell modes:

6 ### code- To run the python code

7 ### Markdown- To prepare documentation

9 ### For running cells -

- 10 - shift + enter
- 11 - ctrl +enter
- 12
- 13
- 14
- 15
- 16

In []:

```
1 # HTML
2
3 <h1>.....<h6>
4
5
6
```

1 ### In Markdown Heading (# , = , -)

```
1
2
3 # Welcome to Python Online Session
4 ## Welcome to Python Online Session
5 ### Welcome to Python Online Session
6 #### Welcome to Python Online Session
7 ##### Welcome to Python Online Session
8 ##### Welcome to Python Online Session
9 ##### Welcome to Python Online Session
10 Welcome to Python Online Session
11
```

```

12 Welcome to Python Online Session
13 =====
14
15
16 Welcome to Python Online Session
17 -----
18
19

```

```

1 <h1>Hello</h1>
2
3 # Hello
4 <h2>Hello</h2>
5 <h3>Hello</h3>
6 <h4>Hello</h4>
7 <h5>Hello</h5>
8 <h6>Hello</h6>
9 <h7>Hello</h7>
10 <h8>Hello</h8>
11

```

```

1 ## Paragraph(No symbol is using this)

```

```

1 Hai Guys , Welcome to Online Python Programming by APSSDC conducted by
  INDUPRIYA...Hai Guys , Welcome to Online Python Programming by APSSDC conducted by
  INDUPRIYA...Hai Guys ,
2
3
4
5
6 Welcome to Online Python Programming by APSSDC conducted by INDUPRIYAHai Guys ,
  Welcome to Online Python Programming by APSSDC conducted by INDUPRIYA

```

```

1 ### Break tag (<br>)

```

```

1
2 Welcome to Online Python Programming by APSSDC conducted by INDUPRIYAHai Guys ,
  Welcome to Online Python Programming by APSSDC conducted by INDUPRIYA..
3 Welcome to Online Python Programming by APSSDC conducted by INDUPRIYAHai Guys ,
  Welcome to Online Python Programming by APSSDC conducted by INDUPRIYA....<br>
4 Welcome to Online <br> Python Programming by APSSDC conducted by INDUPRIYAHai Guys ,
  Welcome to Online Python Programming by APSSDC conducted by INDUPRIYA

```

```

1 ### Bold (** *) or ( _ _ )

```

```

1 Welcome to Online <br> **Python Programming** by **APSSDC** conducted by
  **INDUPRIYA**.....Hai Guys , Welcome to Online Python Programming by APSSDC conducted
  by INDUPRIYA

```

```

1 ### Italic (* *) or ( _ _ )

```

```

1 Welcome to Online <br> *Python Programming* by *APSSDC* conducted by
  **INDUPRIYA**.....Hai Guys , Welcome to Online Python Programming by APSSDC conducted
  by INDUPRIYA

```

In []:

```
1 ### Both bold and Italic(***) or (___ __)
```

```
1 Welcome to Online <br> Python Programming by APSSDC conducted by
INDUPRIYA.....Hai Guys , Welcome to Online Python Programming by APSSDC
conducted by INDUPRIYA
```

```
1 #### Block Quotes (>)
```

```
1 > Welcome to Online <br> Python Programming by APSSDC conducted by
INDUPRIYA.....Hai Guys , Welcome to Online Python Programming by APSSDC
conducted by INDUPRIYA
```

```
1 > Welcome to Online <br> Python Programming by APSSDC conducted by
INDUPRIYA.....Hai Guys , Welcome to Online Python Programming by APSSDC
conducted by INDUPRIYA
2
3 >> Welcome to Online <br> Python Programming by APSSDC conducted by
INDUPRIYA.....Hai Guys , Welcome to Online Python Programming by APSSDC
conducted by INDUPRIYA
4
5 >>> Welcome to Online <br> Python Programming by APSSDC conducted by
INDUPRIYA.....Hai Guys , Welcome to Online Python Programming by APSSDC
conducted by INDUPRIYA
6
7 >>>> Welcome to Online <br> Python Programming by APSSDC conducted by
INDUPRIYA.....Hai Guys , Welcome to Online Python Programming by APSSDC
conducted by INDUPRIYA
```

```
1 ### Order List
```

```
2
3 <ol>
4     <li>APSSDC</li>
5     <li>Python Programming</li>
6     <li>Indu Priya</li>
7     <li>Lucky</li>
8     <li>Mouni</li>
9     <li>MOM</li>
10 </ol>
```

```
1 1. ### APSSDC
2 2. Python Programming
3 3. InduPriya
4 4. Lucky
5 5. Mouni
6 6. MOM
```

```
1 ### Unorder List (- , * , + )
```

```
2
3 <ul>
4     <li>APSSDC</li>
5     <li>Python Programming</li>
6     <li>Indu Priya</li>
7     <li>Lucky</li>
8     <li>Mouni</li>
```

```

9      <li>MOM</li>
10 </ul>

```

```

1 - ### APSSDC
2 - Python Programming
3 - **InduPriya**
4 - *Lucky*
5 - Mouni
6 - ***MOM***

```

```

1 + ### APSSDC
2 + Python Programming
3 + **InduPriya**
4 + *Lucky*
5 + Mouni
6 + ***MOM***

```

```

1 ### Links
2
3

```

```

1 <a href = "https://www.apssdc.in/home/" > APSSDC</a>
2
3 <a href = "https://www.google.com/" > GOOGLE</a>
4
5
6 #### Another way
7
8 [APSSDC](https://www.apssdc.in/home/)

```

```

1 ### Images

```

```

1 <img src = "apssdc.png"/>
2
3 <img src = "python.png"/>
4
5 <img src = "python.jpg"/>
6
7 <img src = "python.jpg" height=350 width=350/>
8
9 <img src = "apssdc.png" height=50 width=50 align="right"/>
10
11 <img src = "apssdc.png" height=50 width=50 align="left"/>
12
13 <img src = "apssdc.png" height=50 width=50 />
14
15
16
17
18 ### In markdown
19
20 ![.](python.jpg)
21
22 ![This is python image](python.png) # If we gave wrong image address
23
24 ![This is python image](python.jpg)
25
26

```

```
1 ### Video
2
3 <video controls src="myvideo.mp4"/>
4
5
6
```

```
1 <video controls src="myvideo.mp4" height="50" width="50"/>
```

```
1 ### Audio
```

```
1 <audio controls src="myaudio.mp3"/>
```

```
1 ## Table Format
```

```
1
2 <th>
3     <td>One</td>
4     <td>One</td>
5     <td>One</td>
6 </th>
```

```
1 <tr>
2 <th> InduPriya</th>
3 <th> RojaRani</th>
4 <th> Mounika</th>
5 <th> Lucky</th>
6 <th> Narayana</th>
7 </tr>
8
```

```
1 <tr>
2 <td></td>
3 <td>InduPriya</td>
4 <td> Technical Skill Trainer cum Developer</td>
5 <td>sal:50000</td>
6 <td> <input type="button" value="Submit"></td>
7 </tr>
```

```
1 ## Python Basics
```

```
1 ### Variables
2
3 - Python is a case sensitive(small letters are not equal to capital letters)
4 - Variable is used to
5     - Holds value
6     - Assign a value
7     - refer memory location
8 - Syn:
9     - **variable name = value**
10
11
12 #### Rules for creating Variables
13
```

```
14 - Variable cannot be start with special character or digit or number
15 - It cant accept/allow spaces
16 - We have to use only one special characer (_)
17 - We can start variable with **Undescore** or **alphabets**
18 -
```

In [5]:

```
1 variable name= 10 # variable not allow spaces
```

```
File "<ipython-input-5-98a33f8ee689>", line 1
  variable name= 10
                ^
```

SyntaxError: invalid syntax

In [6]:

```
1 10variablename= 10 # starting with number
```

```
File "<ipython-input-6-2c590e9f0a1d>", line 1
  1variablename= 10
    ^
```

SyntaxError: invalid syntax

In [7]:

```
1 @a=10 # special character
```

```
File "<ipython-input-7-ea88de52c4a1>", line 1
  @a=10
    ^
```

SyntaxError: invalid syntax

In [8]:

```
1 variable$name= 10
```

```
File "<ipython-input-8-32d471839057>", line 1
  variable$name= 10
    ^
```

SyntaxError: invalid syntax

In [15]:

```
1 variable_name=10
2 variable_name=50
3 variable_name111=100
```

In [14]:

```
1 # we can call variable name with that name or use print option
2
3 variable_name
4
5 # python stores last updates values
```

Out[14]:

50

In [17]:

```
1 variable_name
2 variable_name111
```

Out[17]:

100

In [21]:

```
1 # we want a multiple variable outputs in one cell use print option
2
3 print("variable_name")
4 print("1@@#$$$%^DFDHYJUFRYHTYJKKOKMHTRY#$R#W$^^*&&(()")
5 print(variable_name)
6 print(variable_name111)
```

```
variable_name
1@@#$$$%^DFDHYJUFRYHTYJKKOKMHTRY#$R#W$^^*&&(()
50
100
```

In [51]:

```
1 a=10
2 b=10
3 c=10
4 d=10
5 print(a)
```

10

In [36]:

```
1 a
```

Out[36]:

10

In [37]:

```
1 b
```

Out[37]:

10

In [38]:

```
1 c
```

Out[38]:

10

In [40]:

```
1 a=b=c=d=e=100
```

In [41]:

```
1 a
```

Out[41]:

100

In [42]:

```
1 b
```

Out[42]:

100

In [43]:

```
1 e
```

Out[43]:

100

In [44]:

```
1 x=hi
2 # here except numerical value or keywords remainig all we have gave with inside ""
```

```
-----
NameError                                Traceback (most recent call last)
<ipython-input-44-1979c36afbe8> in <module>
----> 1 x=hi
```

NameError: name 'hi' is not defined

In [45]:

```
1 x="hi"
```

In [46]:

```
1 x
```

Out[46]:

'hi'

In [47]:

```
1 x,y,z,z1,z2="hi","hello",10,40.78,"abc@123"
```

In [48]:

```
1 z1
```

Out[48]:

40.78

In [49]:

```
1 z2
```

Out[49]:

'abc@123'

```
1 ### Keywords
2
3 - Keywords is also called as a reserved words
4 - we didnt use keywords as a variable names ,Function names or any other identifiers
5 -
```

In []:

```
1
```

In []:

```
1
```

In [23]:

```
1 import keyword
2 keyword.kwlist
```

```
del,
'elif',
'else',
'except',
'finally',
'for',
'from',

'global',
'if',
'import',
'in',
'is',
'lambda',
'nonlocal',
'not',
'or',
'pass',
'raise',
'return',
'...',
```

In [30]:

```
1 import keyword
2 print(keyword.kwlist)
```

```
['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 [50]:

```
1 a=keyword.kwlist
2 print(len(a))
```

35

In [22]:

```
1 in=10
```

File "<ipython-input-22-aaad21344826>", line 1

in=10

^

SyntaxError: invalid syntax

In []:

```
1 as
```

In []:

```
1 is # keywords displayed in green color
2
3 a b
```

In []:

```
1
```