Git and Git Hub

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1)Git and Git hub comes under VCS-Version Control System.
2)VS Code is 98 percent Company for Development.
3)Jupyter Notebook is starting.
4)BitBucket.
5)Google Collab.

VS Code is for any coding.

Git and Git Hub

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Command Line basics:

1) ls(List) is command used for list in that directory.
2) ls -a (List) list with hidden files. 3) pwd(Present working directory) is present working directory.
4) cd change Directory is present working directory.
5)Ctrl+C for out of loop
6)Tab for help in selecting file or folder
7)mkdir for make directory.
8)rmdir for removing directory, it should be empty.
9)rm -r for deleting any directory irrespective of empty or some file.

rm -r path file.extension

10)Create file by touch command, ex- touch shivam.txt
if folder name has space then syntax is cd 'Shivam Asthana'

Git basics:

git config - -global user.name "Shivam123iit"
git config - -global user.email "shivam.asthana123@gmail.com"
git config - -global - -list
git clone https://github.com/shivam123iit/learnbay_afsaan.git
git config - -global https.sslverify false
git status
git add
git commit My file.pdf -m 'My first commit'
git push origin master
git add . Adds all files to stagging area
git log – To get Log of all commits
git diff – Will tell about diff in files

Python Components

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1) Literals
2) Constants
3) Variables
4) Identifier
5) Reserve Words
6) Statement and Expression
7) Block and Identation
8) Comments.

Jupyter NoteBook

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Open Jupyter Notebook
>>Jupyter Notebook

LITERALS

Literals :Value that we use in Python is a literals, eg Integer, float, etc.

Integer 10, 2, 9999 etc.
float 10.2, 2.3, 4.35 etc.
Complex number : Anything which can be written in form of a+bj.
None
Boolean : True and False.
String : Any thing in single Quote '....', Double Quote "...." and triple Single Quote "'....."' and triple double quotes """...."""

Examples:
a=10, a is a variable, = is a operator and 10 is a Literal. b= True , this is boolean.
c= None , this is None
d= 'Shivam' , this is a String Literal.

Identifiers

Identifiers: Any Name which we give in Python is a Identifier , this can be variable name, Constant Name, function Name and Class Name

Rules:
1) Anything A-Z, a-z, 0-9 and _
2) Special Characters are not allowed.
3) It should not start with Number.
Ex1 a= 9
print(a)
>>9
Ex2 12=9
print(12)
>> Error
Ex3 _12=3
print(_12)
>>3

Keyword

Keywords should not be used import keyword
print(keyword.kwlist)
['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']
>> You should never start and end variable with __

Expression and Statements:
Expression: Gives Output $-->$ 10+20, 'Data'+'Science'
Statement: No Output $-->$ a=20, for i in range(4)

Block and Indentations

```
"""
Stat1
Stat2
Stat3
Stat4
""" """
Stat1
Stat2
if Condition:
        Stat3
        Stat4
Stat5
Stat6
Stat7
Stat8
"""
```

Standard we give 4 space which is one Tab

Comments in python

```
pi =3.14          # value of Pi
r =5          # radius of circle
a =pi by 4*r*r          # Area of circle
```

Data Types

Basic Data types

Integers->Without decimal point, **function type(a)**
float->With decimal point
complex->With imaginary part, a+ib
string->Without decimal point
None
Boolean

Derived Data types

List
Tuple
set
dic
range
byte
frozen set

Comparison Operator

More than a>b
Less than a<b
More than equal to a>=b
Less than equal to a<=b
Return is always True or False
It can perform int to float
It can perform str to str
complex and None data type do not support

Equality operator ==
It gives True and False only

Logical Operators

AND
OR
NOT