#### **Assignment Day-2.**

## 1. python and its syntax.

Python has a very simple syntax, hence which makes it to learn quickly and easy. For example:

```
In [1]: print("hello world!")
    hello world!
```

Here we can see that it just takes one line to print hello world, compared to other PL's. Probably this can be the smallest peice of code.

#### backslash

Backslash in a special character \ also called the escape character. Its used in representing whitespace characters: \t . \n , \r , \...for example:

#### **Triple quotes**

to create stringss in python we use triple quotes similar to double quotes "abc" or "abc" for example:

```
In [6]: print('''abc''')
         abc

In [7]: print("abc")
         abc
```

#### string inside the quotes

```
In [8]: print('''She said, "thank you!Its mine."''')
She said, "thank you!Its mine."
```

#### Escape sequence of a string

\ prints backslash,for example

```
In [9]: print("\\")
\
```

\' print single quotes

```
In [12]: print("\'")
```

#### 2. variables

A variable is a name given to a apecific object inorder to allocate some memory in the RAM.

#### rules to write a variable name.

---> A variable cannot start with number.

---> A variable cannot have special symbols.

```
---> A variable can start with underscore.
```

---> it can have alpha-numeric values.

--->Its case-sensitive.

## 3. operators

# Airthmetic operator - Addition, Subtraction, exponentiation, multiplication and so on..

```
In [24]: print(2+3)
5
In [25]: print(3-2)
1
```

```
In [26]: print(3**2)
    9
In [28]: print(10%2)
    0
In [29]: print(10/2)
    5.0
```

## assignment operator - +=, -= , == ,/=, %= ..

```
In [34]: a=9
In [35]: a
Out[35]: 9
In [43]: a=2
    a+=3
    print(a)
    5
In [44]: a=2
    a-=1
    print(a)
    1
In [45]: a=2
    a*=3
    print(a)
    6
```

# **Comparision operator : ==, !=, >, < , >=, <=**

```
In [47]: x=5
          y=3
          print(x!=y)
          True
In [48]:
          x=5
          y=3
          print(x>y)
          True
In [49]: x=5
          y=3
          print(x<y)</pre>
          False
In [50]:
          x=5
          y=3
          print(x>=y)
          True
```

## Logical operators: and, or, not

# Identity operator: is , is not

# Membership operator: in , not in

True