```python
#Python Essentials | Day 1 | LetsUpgrade @ 27/07/2021


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#python day 1


#it is very simple
#easily readable
#no strict syntax
#Dynamically typed languages


print('hello world') #single quotes

        hello world


print("hello world") #double qoutes

        hello world


print('''hello world''') #triple quotes

        hello world


print('hello')
print('coders')

        hello
        coders


print('hello',end='')
print('coders')

        hellocoders


print('hello',end=' ')
print('coders')

        hello coders


print('hello','coders')

        hello coders


a = 50
```

```
a
```

```
50
```

```
a = 50;
```

```
a
```

```
50
```

```
print(a)
```

```
50
```

```
print(type(a))
```

```
<class 'int'>
```

```
b= 'hello'
print(type(b))
```

```
<class 'str'>
```

```
x = 10.25
```

```
print(type(x))
```

```
<class 'float'>
```

```
type(x)
```

```
float
```

```
c = 10
d = 20
e = 30
```

```
c , d , e
```

```
(10, 20, 30)
```

```
c   , d   , e = 10 ,20 , 30
```

```
c , d , e
```

```
(10, 20, 30)
```

```
a = b  = c = 20

print(a,b,c)

    20 20 20

print(id(a)) #address
print(id(b))
print(id(c))

    93919183264864
    93919183264864
    93919183264864

b = 30

print(a,b,c) #immutability

    20 30 20

print(id(a))
print(id(b))
print(id(c))

    93919183264864
    93919183265184
    93919183264864

print(type(id(a)))

    <class 'int'>

type(id(a))

    int

s = input('enter first value : ')
r = input('enter second value :')

    enter first value : 100
    enter second value :200

print(s+r)

    100200

type(s)

    str
```

```
print(type(r))
```

```
<class 'str'>
```

```
s = int(input('enter first value : '))
r = int(input('enter second value :'))
```

```
enter first value : 100
enter second value :200
```

```
print(s+r)
```

```
300
```

```
type(s)
```

```
int
```

```
print(type(r))
```

```
<class 'int'>
```

```
t = input('enter the values : ')
```

```
enter the values : 10 20 30 40 50
```

```
print(t)
```

```
10 20 30 40 50
```

```
type(t)
```

```
str
```

```
x = input('enter values :')
print(type(x))
val=x.split()
print(val)
```

```
enter values :10 20 30 40 50
<class 'str'>
['10', '20', '30', '40', '50']
```

```
print(type(val))
```

```
<class 'list'>
```

```
type(val)
```

```
        list

x = input('enter values :')
print(type(x))
val=[int(i) for i in x.split()]
print(val)

        enter values :10 20 30
        <class 'str'>
        [10, 20, 30]

type(val)

        list

list1=["hello",'hi',20,0.125,"TRUE"]

list1

        ['hello', 'hi', 20, 0.125, 'TRUE']

print(type(list1))

        <class 'list'>

list2=[1,45,85,20,63,12]

list2

        [1, 45, 85, 20, 63, 12]

print(list2) #unsorted list

        [1, 45, 85, 20, 63, 12]

list2.sort()

print(list2) #sorted list

        [1, 12, 20, 45, 63, 85]

list2.reverse() #reverse the list
print(list2)

        [1, 12, 20, 45, 63, 85]

list2=[1,45,85,20,63,12]

print(list2[0:4]) #slicing
```

```
print(llStz[0.4]) #sllclng
```

      [1, 45, 85, 20]

```
li = [int(i) for i in input("enter values :").split()]
```

      enter values :10 20 30 40

```
print(li)
```

      [10, 20, 30, 40]

```
type(li)
```

      list

```
li.sort() #sorting in asceding order
```

ASSIGNMENT 1_DAY 1_27/07/21# New Section

```
li = [int(i) for i in input("enter values :").split()]
print(li)
```

  ⤷   enter values :10 20 30 40
      [10, 20, 30, 40]

```
li.sort(reverse=True) #sorting in desceding order ASSIGNMENT 1 DAY 1- 27/07/2021
```

```
li
```

      [40, 30, 20, 10]

```
print(li)
```

      [40, 30, 20, 10]

```
x = 'h e l l o' #spliting a string
y=x.split()
```

```
print(y)
```

      ['h', 'e', 'l', 'l', 'o']