```
#indentifisers
any name in python is called identifiers.
 the name may be variable name, class name or function name.
#keywords
thier are some word in python to represeent some functinality such type of word
called reserved word
 thier are 35 keyword available in python
['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']
import keyword
print(keyword.kwlist)
#comments in python
# single lne comment (#/ =control+/)
#multiline comments
df,djsc
csjaikfjq
ukyk bxurrwq
#some in built function
#1)print() -o print something
#2)id()-to check address of something
#3)type()- to check type of varaibel
#varaibel
tag given to a memory location
```

```
x=2
y=2 #float
print(id(x))
print(id(y))
name='rahul'
name1="rahul"
print(id(name))
print(id(name1))
print(type(name))
print(type(x))
#data types- datatye represent type of data inside varaible.
#1)integer- used to store whole value/ integer value
x=2
print(x)
print(type(x))
#2)float=used to store flaoting value / floating point number
y = 2.4
print(y)
print(type(y))
#3)complex-to store complex value i.e is in the foram of real part and imaginary
part
z = 2 + 3j
print(z)
print(type(z))
print(z.imag)
print(z.real)
#4)boolean value=true or false
#note:- in python true is considered as 1 and false is considered as 0
a=True
b=False
print(a)
print(b)
print(type(a))
print(type(b))
print(a+b)
print(True+True)
print(True+False)
```

```
#5)string (str)-collection of char inside single quote or double quote are called
string
name='lalit'
name1="lalit"
print(name)
print(name1)
print(type(name))
print(type(name1))
#string indexing= positive as well as negative indexing possible
print('##################")
s='today is good day to learn python'
print(s[0])
print(s[1])
print(s[2])
print(s[3])
print(s[4])
print(s[5])
print(s[6])
print(s[7])
print(s[-1])
#string slicing=pisece of sometyhing
str[startindex:stop indesx:steps]
s='today is good day to learn python'
print(s[0:4:1])
print(s[-7::1])
#reverse stringh
print(s[::-1])
#all funcdamental data types are immutable
int
float
complex
str
boo1
#immutable=where we can not make any changes if changes make in the immutable
```

```
#object then whole object changes
#mutable=the data type whwere we can perform changes .
#6)list
order
sequence of charecter inside square brackect qumma sqperated.
hetrogeneouse/homogeneous data store
duplicate allowed
indexing/slicing possible
item ASSIGNMENT POSSIBLE
l=[1,2,23,3,4,'rahul',2]
print(id(l))
1[0]=5
print(1)
print(id(l))
#indexing /slicing possible
l=[1,2,23,3,4,'rahul',2]
print(1[0])
print(l[0:4:])
#item_assignment/assign value to index possible
l=[1,2,23,3,4,'rahul',2]
1[5]='sagar' #item assignemnt
print(1)
#7)tuple=read only version of list
order
immutable
item assignment not possible
indexing/ slicing possible
duplicates are allowed
home/hetro possible
t=(1,2,23,3,4,'amol',2)
print(type(t))
print(t)
#item assignemnt not possible
```

```
#t[0]=56
       #tuple' object does not support item assignment
#indexing and slicing possible
t=(1,2,3,4,4,5)
print(t[0])
print(t[1])
print(t[0:4])
#8)set
mutable
unorder collection of charecter inside curly braces
indexing/ slicing not possible
duplicates not allowed
homo/hetro possible
item assignment not possible
s={1,2,3,4,4,'amol'}
print(s)
#print(s[0]) #'set' object is not subscriptable
#9)dictinary/mapping/key-value pair
mutable
key of dict is immutable and value can be any thing i.e mutable or immutable
#key can not be repeted or duplicate
access value using key
d={(1,2,3,43):'rahul',2:'amol',3:'sagar'}
print(d[2])
#frozonsert
#bvte
#bytearray
```