Day Objectives

- keywords
- variable
- datatypes
- type conversions

In [1]:

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

...

In [2]:

```
import keyword
print(len(keyword.kwlist))
```

```
35
```

In [3]:

```
a = 78
print(a)
```

```
78
```

In [4]:

```
a1,b1 = 7,8
print(a1,b1)
```

```
7 8
```

In [5]:

```
a=b=c=6
print(a,b,c)
```

```
6 6 6
```

In [10]:

```
s,g,t = 67,88,23
print(s)
print(g)
print(t)
```

```
67
23
```

In [ ]:

```
single line comment
multiline comment
```

In [11]:

```
'''hjghjghj
yyutytyuiyiyiuu
tyuyuyiuiio
uiyiuiu8oi'''
print("hi")
```

```
hi
```

datatypes

- int---- 7,8,56,7978656
- float--- 9.7,9.0,6.8
- str- "vanitha","ruthu"
- bool -- True,False

In [12]:

```
# integer
n = int(input('Enter any number: '))
print(n)
```

```
Enter any number: 78
78
```

In [13]:

```
# float
f = float(input('Enter any number: '))
f
```

```
Enter any number: 5.6
```

Out[13]:

```
5.6
```

In [15]:

```
# str
s = input()
s
```

```
89
```

Out[15]:

```
'89'
```

In [16]:

```
s1 = str(input())
s1
```

book

Out[16]:

'book'

Type Conversions

```
int - int(variable_name)
float - float(variable_name)
str - str(variable_name)
```

In [18]:

```
# integer to float
h = 89
print(h,type(h))
h1 = float(h)
print(h1,type(h1))
```

```
89 <class 'int'>
89.0 <class 'float'>
```

In [19]:

```
# float to integer
f = 7.9
print(f,type(f))
f1 = int(f)
print(f1,type(f1))
```

```
7.9 <class 'float'>
7 <class 'int'>
```

Operators

- Arithmetic :- +,-,/,,%,//(floor),power(*)
- Assignment :- =,+=,-=,*=,/=,.....
- Comparision/Relational:- ==,!=,<,>,<=,>=
- Logical:- and,or,not
- Bitwise:- &,|,^(xor),<<,>>
- Membership:- in, not in
- Identity:- is,is not

In [22]:

```
## Arithmetic
a,b = 8,9
print(a+b,a-b,a*b)
print(a/b,a%b)
```

. . .

In [26]:

```
print(a//b,2**5)
```

```
0 32
```

In [28]:

```
# Assignment
f = 8
f += 2 # f=f+2=8+2=10
print(f)
```

```
10
```

In [29]:

```
s = 5
s -= f
print(s)
```

```
-5
```

In [30]:

```
d = 7
d *= s
print(d)
```

```
-35
```

In [33]:

```
# comparision
g,h = 78,22
print(g==h)
print(g!=h)
print(g>h)
print(g<h)
print(g>=h)
print(g<=h)
```

. . .

In [37]:

```
# logical and
g,h = 78,22
print(g>h and g==h) # T and F
print(g<h and g!=h) #  f and t
print(g>h and g!=h)
```

...

In [38]:

```
# logical or
print(g>h or g==h)
print(g<h or g!=h)
print(g>h or g!=h)
```

...

In [41]:

```
# not
print(not(g>h))
print(not(g<h))
```

```
False
True
```

In [43]:

```
### Bitwise Operators
bin(20)
```

Out[43]:

```
'0b10100'
```

In [46]:

```
a,b=10,20
print(a&b)
print(a|b)
print(a^b)
```

...

In [ ]:

```
# Membership Operators: - in,not in
    These operators are used to check whether a value/character
       is presented in a sequence or not

    sequence:-   str,list,tuple,dict,set
```

In [50]:

```
s = "apssdc"
print("s" in s)
print("d" in s)
print("z" in s)
print("p" in s)
```

...

In [52]:

```
print("s" not in s)
print("j" not in s)
print("p" not in s)
print("y" not in s)
```

...

In [55]:

```
print("aps" in s)
print("ssp" in s)
print("ssdca" in s)
```

```
True
False
False
```

In [62]:

```
# identity
a,b = 7,9
print(id(a),id(b))
print(a is b)
a1,b1=7,7.0
print(id(a1),id(b1))
print(a1 is b1)
print(a is not b)
```

```
1929824496 1929824528
False
1929824496 99220048
False
True
```

In [ ]:

```

```