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COMPARISION OPERATORS (RELATIONAL OPERATORS)

-> MORE THAN < -> LESS THAN = ->More than or equal to < = ->Less than or equal to == ->Equal to != ->Not equal to

```
In [1]:
          a=10
          b=20
           print(a>b)
           print(a<b)</pre>
           print(a>=b)
           print(a<=b)</pre>
           print(a==b)
           print(a!=b)
          False
          True
          False
          True
          False
          True
          a="ARMAN"
In [3]:
          b="ARYAN"
           print(a>b)
           print(a<b)</pre>
          print(a>=b)
          print(a<=b)</pre>
           print(a==b)
           print(a!=b)
          False
          True
         False
          True
         False
          True
```

LOGICAL OPERATORS: AND,OR,NOT

1) Boolean Type Behaviour

and -> If both arguments are true then only result is True else False or -> If atleast one argument is True then result is True. not -> complement

- 2) Non-Boolean Type Behaviour
 - 0 means False
 - non-zero means True
 - empty-string means False x and y -> If x is evaluates to False then return x otherwise return y. x and y -> If x is evaluates to True then result is x otherwise y.

```
In [5]: #Boolean Type
    print(True and False)
    print(not False)
    print(not True)
    print(True and False and True and True)
False
True
True
```

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False False

```
In [10]: #Non-Boolean Type
    print(10 and 20)
    print(0 or 20)
    print(not 0)
    print(not 20)

20
    10
    20
    True
    False
```

Ternary or conditional operators

syntax: x=first value if condition else second value

 if condition true then first value will be considered else second value will be considered

```
In [11]: a=10
b=20
x=30 if a>b else 40
print(x)
```

ASSIGNMENT OPERATORS

-> We can use assignment operator to assign value to the variable

```
In [18]:
          x=10
          x+=10
           print(x)
          x-=10
           print(x)
          x*=10
           print(x)
           x/=10
           print(x)
           x//=10
           print(x)
          x**=10
           print(x)
          20
          10
          100
          10.0
          1.0
```

MEMBERSHIP OPERATOR

1.0

-> To check whether the given object is pressent in the given collection. (String,List,Tuple,dict,set)

in -> returns True if given object present in the specified collection. not in -> returns Ture if given object is not present in the specified collection

```
In [19]: x="Hello learing python is very easy"
    print("i" in x)
    print("python" in x)
```

```
print("d" in x)
          print("d" not in x)
          True
          True
          False
          True
In [21]: a=[1,2,3,4,5]
          print( 3 in a)
          True
         print(7 and 0 or 5 and 3 or 7/0)
In [28]:
          3
In [35]:
          5 and False or 3/0
          5 and True or 3/0
Out[35]: True
          "1" in "123" and "False" or True
In [36]:
         'False'
Out[36]:
In [37]:
          print(7*5**2/True*False)
          0.0
In [38]:
          3/True
Out[38]: 3.0
          10*4+5**2**2/10
In [40]:
Out[40]: 102.5
In [42]:
          print(5==5.0 or 10 and 5 or 5 == 5.0 and 7!= 7.0)
          True
In [45]:
          new = (1 and "True") and ("False" or TRAIN)
          str ="This statement is "+ new
          print("This is False " if "false" in new else "This is True")
         This is True
         1) ord() Char to Ascii
         2) chr() Ascii to char
          print(ord("A"))
In [47]:
          print(chr(65))
          65
         Α
          for i in range (ord("a"),ord("z")+1):
In [50]:
                 print(chr(i))
          а
          b
          C
          d
```

r s t u v

х у

j k 1 m n o p q

In [53]:

```
for i in range(65,91):
    print(chr(i))
A
```

В C D Ε F G Н Ι J K L Μ Ν 0 Ρ Q R S

> T U V

W X Y 7

```
In [69]: # write python progam to conver given date in year month and days
a=int(input("ENTER DAYS"))
y=a//365
m=(a%365)//30
d=(a%365)%30
print(y ," year" , m , "months " ,d, "days")
```

ENTER DAYS450 1 year 2 months 25 days

```
n100=((a%500)%200)//100
n50=(((a%500)%200)%100)/50
n20=((((a%500)%200)%100)%50)//20
n10=((((a%500)%200)%100)%50)//20
print( n500,"* 500 ",n200,"* 200 ",n100,"* 100 ",n50,"* 50 ",n20,"* 20 ",n10,"* 10")

ENTER AMOUNT1780
3 * 500 1 * 200 0 * 100 1 * 50 1 * 20 1 * 10

In []:

In []:
```