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• '>'(Greater than)

Comparison operators(Relational operator)

```
'<'(Less than)</li>
          • '>='(Greater than or equal to)
          '<='(Less than or equal to)</li>
          • '=='(equal to)
          • '!='(not equal to)
In [2]:
          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
In [7]:
          print(10<20)
          print(10<20<30)
          print(10<20<30>40<50)</pre>
         True
         True
         False
```

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

True

- non-zero means True
- empy string False
- x and y -> if x evaluates to False then return x otherwise return y

• x or y -> if x is evaluates to True then result is x otherwise result is y

Ternary or conditional operator

- x = first value if condition else second value
- if condition True then first value will be considered else second value will be considered

```
In [15]:    a=10
    b=20
    x=30 if a>b else 40
    print(x)
```

30

Assignment operators

• we can use assignment operator to assign value to the variable

```
In [16]:
           print(x)
           x+=10
           print(x)
           x = 10
           print(x)
           x*=10
           print(x)
           x/=10
           print(x)
           x%=10
           print(x)
           x//=10
           print(x)
           x**=10
           print(x)
          10
          20
          10
          100
          10.0
          0.0
          0.0
          0.0
```

Membership operation

- To check wether the given object is present in the given collection(string,list,tuple,dict,set)
- in->returns True if given object present in the specified collection
- not in->returns True if given object present in the specified collection

```
In [21]:
          x="Hello learning 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 [27]:
          print(7 and 0 or 5 and 3 or 7/0)
         3
         print(7 and 0 or 5 and 3 and 7/0)
          print(5==5.0 or 10 and 5 or 5==5.0 and 7!=7.0)
In [34]:
```

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```
True
In [32]:
          a=5
          p=7
          a+=p
          a-=p
          p*=a
          p/=a
          print(p)
          print(a)
         7.0
         5
          new=(1 and "True") and ("False" or Train)
In [40]:
          str="This statement is"+new
          print("This is false" if "False" in new else "This is true")
         This is false
         ord():converts character to ASCII
         chr():converts ASCII to character
          print(ord('a'))
In [44]:
          print(chr(65))
         35
         Α
          for i in range (65,91):
In [46]:
               print((chr(i)))
         Α
         В
         C
         D
         Ε
         F
         G
         Н
         Ι
          J
          Κ
          L
         Μ
         Ν
         0
          Ρ
         Q
         S
          Т
         U
         ٧
         W
         Χ
          Υ
         Ζ
          for i in range (26):
In [47]:
               print(chr(65+i))
```

Α В C D Е F G Н Ι J Κ L Μ Ν 0 Ρ Q R S Τ U ٧ W Χ Υ Ζ

Q.Write a python program to convert given days into year, month and days

Q. Avaialble denominations

Year 1 Month 2 Days 25

Amount->880

```
amount =int(input("Enter amount:"))
In [12]:
          note500=amount//500
          note200=(amount%500)//200
          note100=((amount%500)%200)//100
          note50=(((amount%500)%200)%100)//50
          note20=((((amount%500)%200)%100)%50)//20
          note10=(((((amount%500)%200)%100)%50)%20)//10
          print("500", note500)
          print("200", note200)
          print("100", note100)
          print("50",note50)
          print("20",note20)
          print("10", note10)
         Enter amount:1020
         500 2
```

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20 1 10 0 In []: