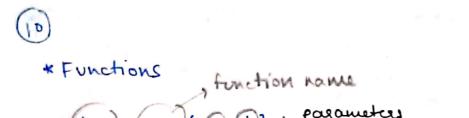
* Boolean. a = (True) - keywords for Bool value type (a) -> bool # Ruational operators X = 10 Y = 20 , returns a boolean used in python " H Logical operators : (and) (& &) for (11) # conditions -> similar to CH / Java back syntax difference (ou watertain is compulsory in python causes error if asb: print (a). (was for conditions) a = = b : elif) print (a) op hional print (b) else: print (a) if True or True : (evaluated left if false and True or false; to right) print ("A") elif false and false or True and True: print (B') else: print (24)

```
* Loops
          while : condition to follow
                                             - we can break
                                                  from loops.
                                                   using break
               3 propu indentation for loop code
       * range (1,10) - (produces numbers for marted
                                                                -1]
                                          ( returns iterable object
          for i in range (1,10)
                                         containing int)
                            runs i in range I tolo, i.e.
                           it will start i from I undendit
                              at 10. (10 not included)
                             start is inclusive, whereas
                               end is not inclusive.
        * range can have 3 arguments: (i) start value (0)
                                     (ii) end value
                                    (iii) step size (1).
(only allowed for iterables)
    # fast iteration sonly fastertowrite refficiency diff
                                        (au iterable objects)
       abed!
operate copy() for e in s:
                              -> c organis the value of each
                                     character un soul
                                     accordingly pereforms the
(not me for lists, etc.)
                                     loop till all elements are
                                        nd exhausted.
   any changes
                                      doable in tiples as well.
                  works for its hial
doubt drange looping
                              state
   condition
                            -> (executes only initial valuetimes)
         for i in rounge (6)
                print (a, end = "")
                 at = 1
```



(def com (Q, Q); parameters for tunction (return) a+6 Keyword to sudicate defination tehrning of furction value

* proper industration

- heed to go from right # Default arguments to a function to lest, and that is also how values are def power (x, y=2): assigned incare more retorn X ** y values are sent

> 9 function will work with even largument

def som (a = 12, b = 1, c = 2): retorn attote

print (sum (1, 2, 3)) print (sum (1,2)) y goes to a, b print (sum (10)) , goes to a (01=d) muz

> can specify key value pairs named parameters

At variable number of inputs to a fondion def sam (a,b, * more): to pact as a tuple print (more) print (type (more)) -> type. return 10. SUM ((1), (1), (13) MUZ b go to the tople - if no extra variables, angiven, the remain empty. def som-var (a,b, "more): ans = a 1 b. SUM - VOR (10, 12, 2, 3, for i in more: anst = i return aus. # more than one retorn value def dummy (a,b): sum 1, diff = dummy (10,12) return atb, a-b value go into new variables in order a = demmy (22,10) print (a) tople only. or also a = dumny (22,10) [0] another possibility