```
Monday 9/28/2025
                                          Selection
A. Boolean values 2 expressions
1. Boolean values
 1 True
          (not string)
 1 False
2. Boolean expressions
. To evaluate to a boolean value
 1.9. print (5==6)
      L> False
 -==: comparison operators
 · a=+ is legal but += a is not
B. Logical operators
1) There are 3 logical operators
                              1 and
                               L not
1.9. X = 5
     print (x > 0 and x < uo)
    L-> True
· Use touth tables: a b a 1 b
                     T
                               T
                              F
? n == 5 or n == 6 [ not n == 5 or 6]
a) Logical opposites
                                     !=
                                      >=
                             4=
                                      >
                             >
                                      4=
                                      4
C. Precedence of Operators
                             Level
                                        Operators
                                           **
                               6
                                         *, 1,11,%
                              5
                                          ナノー
                                        ==,!=,<=,<,>
                                          not
                                           and
                                           5
D. Conditional execution: binary selection
 · Selection Statement (conditional)
  → ]f;
      else:
E. Omitting the else clause: whaty selection
e.g. x = 10
   if x 40.
      print ("...")
     DULAT ( " ADC ")
     L- ABC
F. Mested conditionals
e.g. if x < y:

print("...")
     else:
         if x > y:
    print("_")
            parint ("...")
G. Chained conditionals
e.g. if x 2 ys

print("...")
    else:
       print ("...")
```

th Bolean functions

e.g. def istrusible (x, y):

if x % y == 0:

return result

print (is Divisible (10,5))

result = True

19 wit = False

Week 5