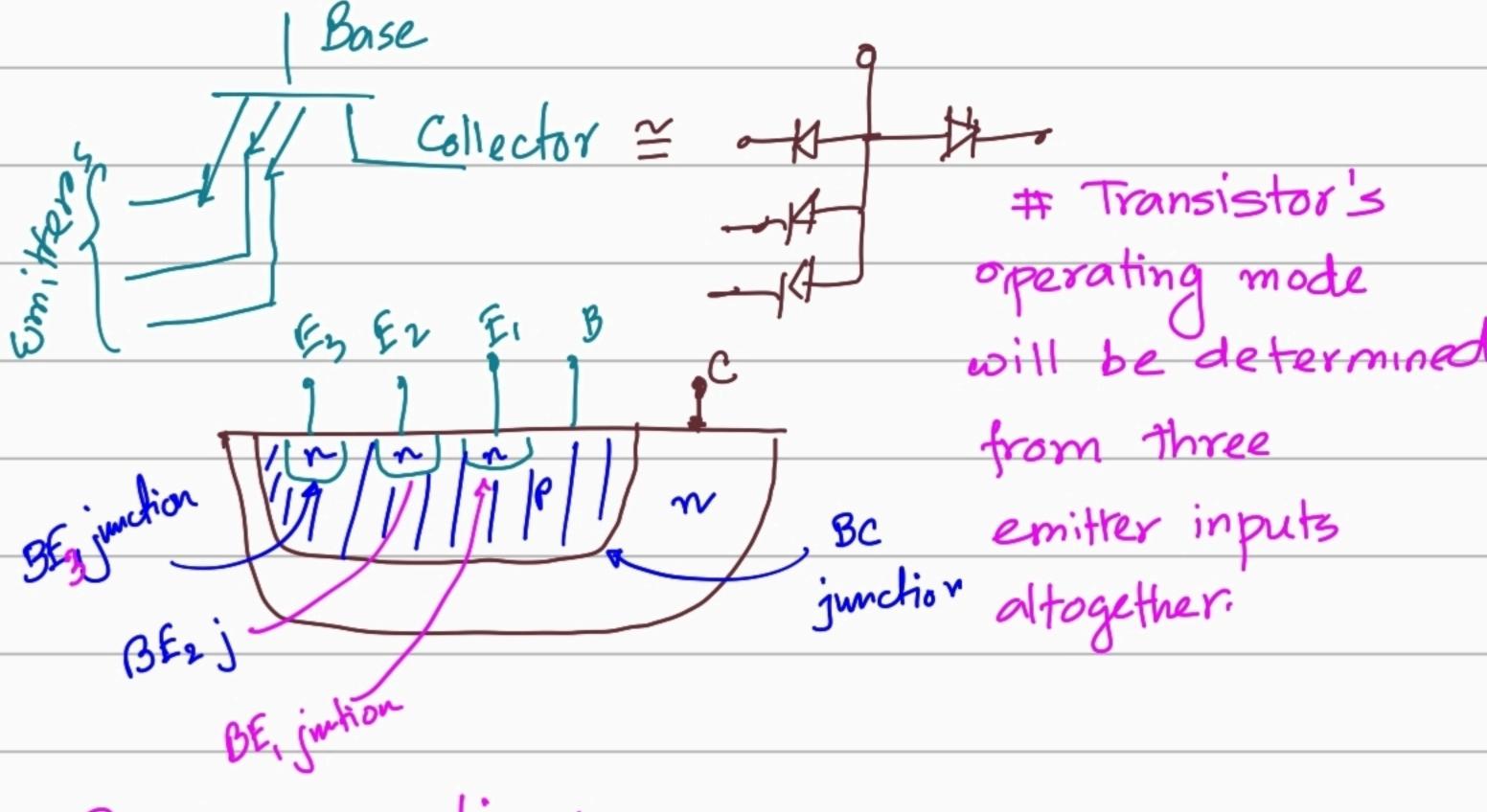
## "Transistor- Transistor Logic

Bipolar, -> Saturated -> TTL

# The input terminals are connected to the emitter terminal of a transistor and the output terminal is connected to a switching transistor.

# input terminals will be connected to multiemitter transistor.



Basic Operation:

# find out the current and voltage of the following gate. Verify that it works like a NAND gate.

Case (1).  $v_x = v_y = 0.17$  [Neaman]  $v_{cE}$  (sat) = 0.1V  $v_{BE}$  (sat) = 0.8V

