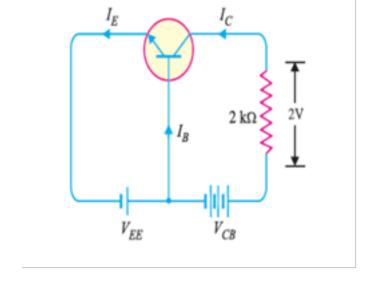
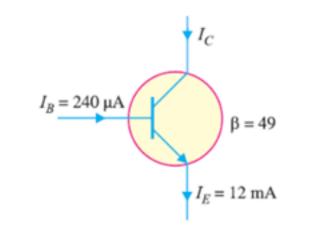


In a common base connection,  $\alpha$ = 0.95. The voltage drop across 2 k $\Omega$  resistance which is connected in the collector is 2V. Find the base current.



7 Calculate IE in a transistor for which  $\beta$ =50 and IB= 20  $\mu$ A

**8** Find the  $\alpha$  rating of the transistor shown in Figure below. Hence determine the value of IC using both  $\alpha$  and  $\beta$  rating of the transistor.



9 A transistor has the following retings: IC(max) = 500 mA and βmax= 300. Determine the maximum allowable value of IB for the device.

10 Figure following shows the open circcuit failures in a transistor. What will be the circuit behavior in each case.

