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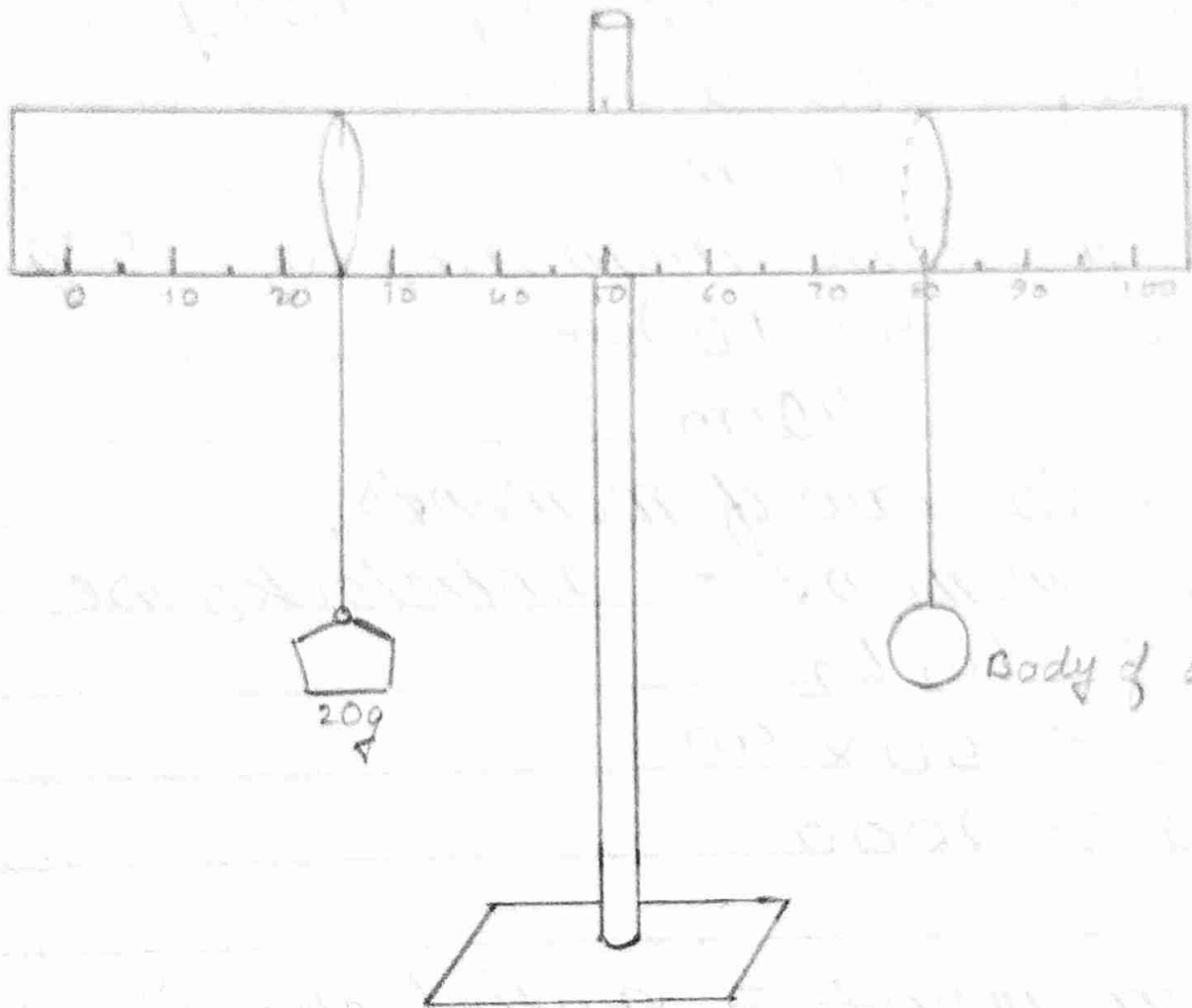
## MEASUREMENT OF WEIGHT OF A BODY BY LAW OF MOMENTS

**Aim:** to measure the weight of a body using law of moments.

**MATERIALS REQUIRED:** A metre rule with hole added at centre of gravity, a thread piece, weight box.

### PROCEDURE

Suspend metre rule at its centre of gravity to a support using thread loop. The metre rule hangs in horizontal state. Hang the given body in thread loop and suspend the thread loop on right side of suspension point (say 80 cm mark). Take 10g or 20g weight from the weight box and tie it with second thread loop. Suspend this loop on the left side of suspension point. Slowly shift the position of the second loop till the metre scale attains a horizontal position. Note down its position on the scale. Repeat the experiment by changing the position of given body on metre scale.



stand for supporting the scale  
through the centre of gravity  
of scale.