

### THEORY

When a body is placed in a liquid, it experiences an upward force called buoyant force. This force is equal to the weight of the liquid displaced by the body. This is known as Archimedes' principle. If the weight of the body is greater than the buoyant force, it will sink. If the weight is less than the buoyant force, it will float. If the weight is equal to the buoyant force, it will be suspended in the liquid.

Sl. No.	Weight in air (W <sub>1</sub> )	Weight in liquid (W <sub>2</sub> )	Weight of displaced liquid (W <sub>3</sub> )
1	100	80	20
2	150	120	30
3	200	160	40
4	250	200	50
5	300	240	60

### CONCLUSION



Sl. No.	Weight in air (W <sub>1</sub> )	Weight in liquid (W <sub>2</sub> )	Weight of displaced liquid (W <sub>3</sub> )
1	100	80	20
2	150	120	30
3	200	160	40
4	250	200	50
5	300	240	60