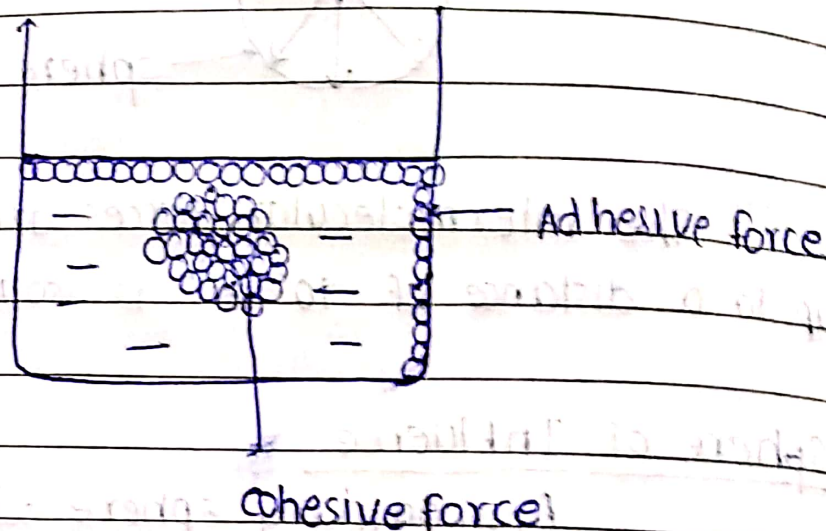
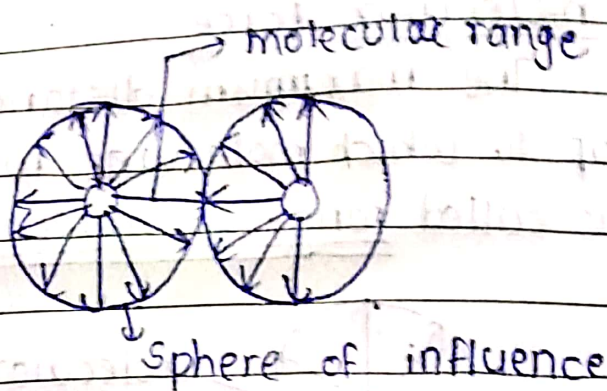




* The forces between the molecules called intermolecular force

↓
cohesive force

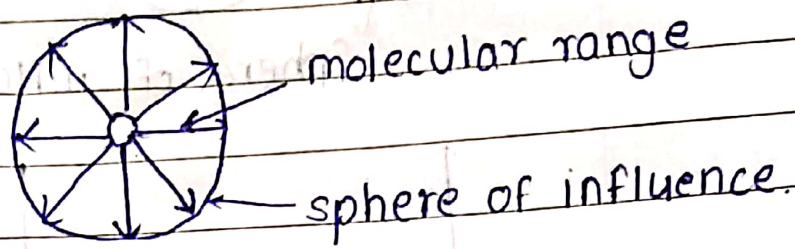
↓
Adhesive force

* Cohesive force :- The force of attraction between the molecules of same substance called cohesive force.

* Adhesive force - The force of attraction between the molecules of different substances is called adhesive force.

* Range of molecular force :

The maximum distance from a molecule up to which molecular force is effective is called range of molecular force.

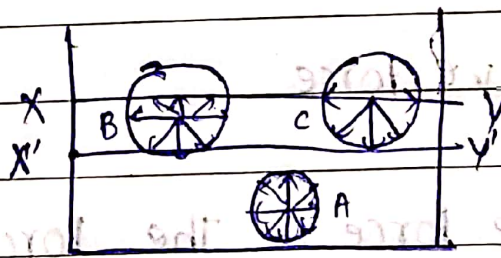


The intermolecular forces are effective up to a distance of 10^{-9}m in solids & liquids.

* Sphere of Influence

An imaginary sphere with a molecule at its centre & radius equal to molecular range is called sphere of influence.

* Surface film



The surface layer of a liquid with the thickness equal to range of intermolecular force is called surface film.