8 INVESTIGATING STATIONARY WAVES USING SOUND SOURCE A hollow tube can be used to investigate stationary waves in sound. The tube is closed at one end and open at the other end. A loudspeaker connected to Signal Generator is placed near the open end of the tube as Loudspeaker shown Node always formed at Closed end
diagram ()
-furdamental
'sound is again. When the frequency is adjusted, a stationary wave is formed in the tube. The lowest frequency (fundamental frequency) representation is shown below. When the frequency is further increased, a loud sound is again observed. This frequency corresponds to the first overtone. If the frequency is increased even further another loud sound (second overtone) appears

If you continue with this procedure, third , fourth overtones can also be produced $% \left\{ \left(1\right) \right\} =\left\{ \left(1\right) \right\}$

