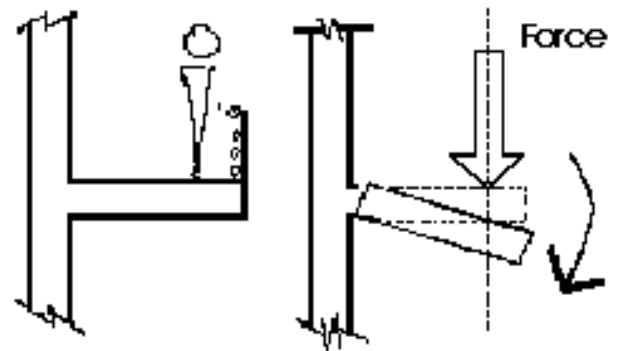


What is Moment?

- The **Moment** of a force is a measure of its tendency to cause a body to rotate about a specific point or axis.
- A moment is due to a force not having an equal and opposite force directly along it's line of action.



- Imagine two people pushing on a door at the doorknob from opposite sides.
- If both of them are pushing with an equal force then there is a state of equilibrium.
- If one of them would suddenly jump back from the door, the push of the other person would no longer have any opposition and the door would swing away.
- **The person who was still pushing on the door created a moment.**

Moment = Force x Distance

$$M = F \times d$$

What is a Shear stress?

- A **shear stress**, is defined as a stress which is applied parallel to a face of a material, as opposed to a normal stress which is applied perpendicularly.

