Making Rotating Arms to Understand

Imagine a clock

- The hour hand moves slowly.
- The minute hand moves faster.
- The movement of these hands creates different angles between them.

Example:

- At 12:00, both hands overlap → 0° (zero angle).
- At 3:00, the hands form a right angle (90°).
- At 6:00, they form a straight angle (180°).
- At 9:00, another right angle (90°) is formed.
- At 12:00 again, the hands complete a full rotation (360°).

Observing Different Angles Using Rotation

Rotation Position	Angle Formed	Example
No rotation (same position)	0° (Zero Angle)	Clock hands at 12:00
Quarter turn	90° (Right Angle)	Clock hands at 3:00
Half turn	180° (Straight Angle)	Clock hands at 6:00
More than half turn	270° (Reflex Angle)	Clock hands at 9:00
Full turn	360° (Complete Angle)	Clock hands at 12:00

Examples

1. Opening a Door

- Closed door → 0° (Zero Angle)
- Half-open door → 90° (Right Angle)
- Fully open door → 180° (Straight Angle)

2. Fan Blades Rotating

When the fan rotates completely, it forms a 360° (Complete Angle).