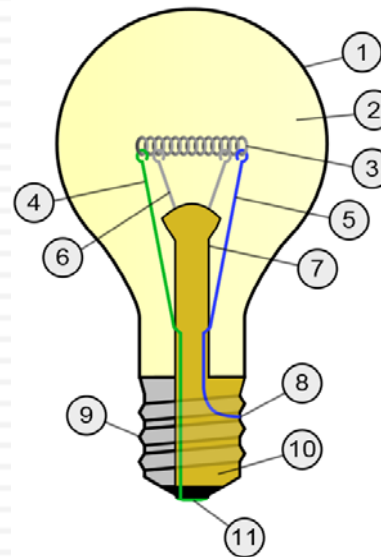


# LAMP : LIGHT CREATION

Lamp Convert **Electric Energy** (Electricity) to Light (**Electromagnetic Energy**)

Light is created in many ways:

- 1) **Incandescence** (Thermo-luminescence): Production of Light by means of Heat: Electricity is used to raise the temperature of the filament until it is incandescent.
- 2) **Electric Discharge** (Electric Arcs): The production of light from the passage of electricity through a gas or vapor which excites atoms and emits photons.
- 3) **Fluorescence** The process of converting the invisible ultra-violet energy emitted normally from an electrical discharge into visible light.
- 4) **Solid State Lighting** Electroluminescence, LED lighting.
- 5) **Bioluminescence** Production of Light by Means of Biological Reaction (Fire Fly).
- 6) **Chemiluminescence** Production of Light by means of a chemical reaction (Glow Sticks).



1. OUTLINE OF GLASS BULB
2. LOW PRESSURE INERT GAS (ARGON, NITROGEN, KRYPTON, XENON)
3. TUNGSTEN FILAMENT
4. CONTACT WIRE (GOES OUT OF STEM)
5. CONTACT WIRE (GOES INTO STEM)
6. SUPPORT WIRES (ONE END EMBEDDED IN STEM; CONDUCT NO CURRENT)
7. STEM (GLASS MOUNT)
8. CONTACT WIRE (GOES OUT OF STEM)
9. CAP (SLEEVE)
10. INSULATION (VITRITE)
11. ELECTRICAL CONTACT

