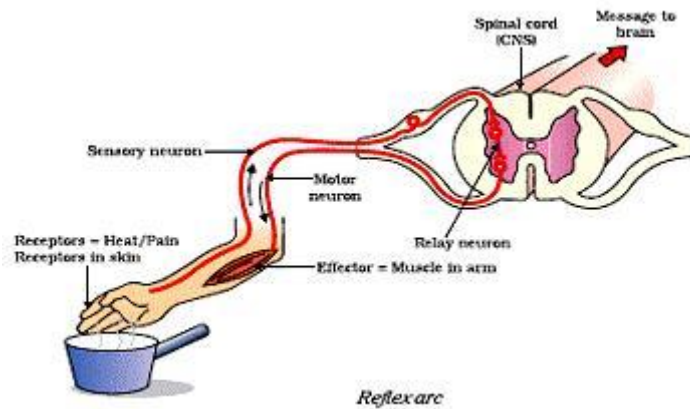




Reflex arcs can be classified according to the degree of complexity of neuron organization within the reflex arcs:

Monosynaptic (Monosegmental neuron): Sensory neuron has single synaptic connection with motor neuron.

Relay neuron (Association neuron): It makes synaptic connection with nerves that pass upwards into the association areas of brain.

If the controlling center of the reflex arc is located in the brain it is called **cerebral reflex**. If it is located in the spinal cord, it is called **spinal reflex**.

The reflex arcs are of two types:

- 1) **Somatic reflex** arc involving effector organs located in (soma) body structures.
e.g. skeletal muscles.
- 2) **Visceral reflex** arc involves effectors located in the visceral organs.
e.g. glands or smooth muscles.