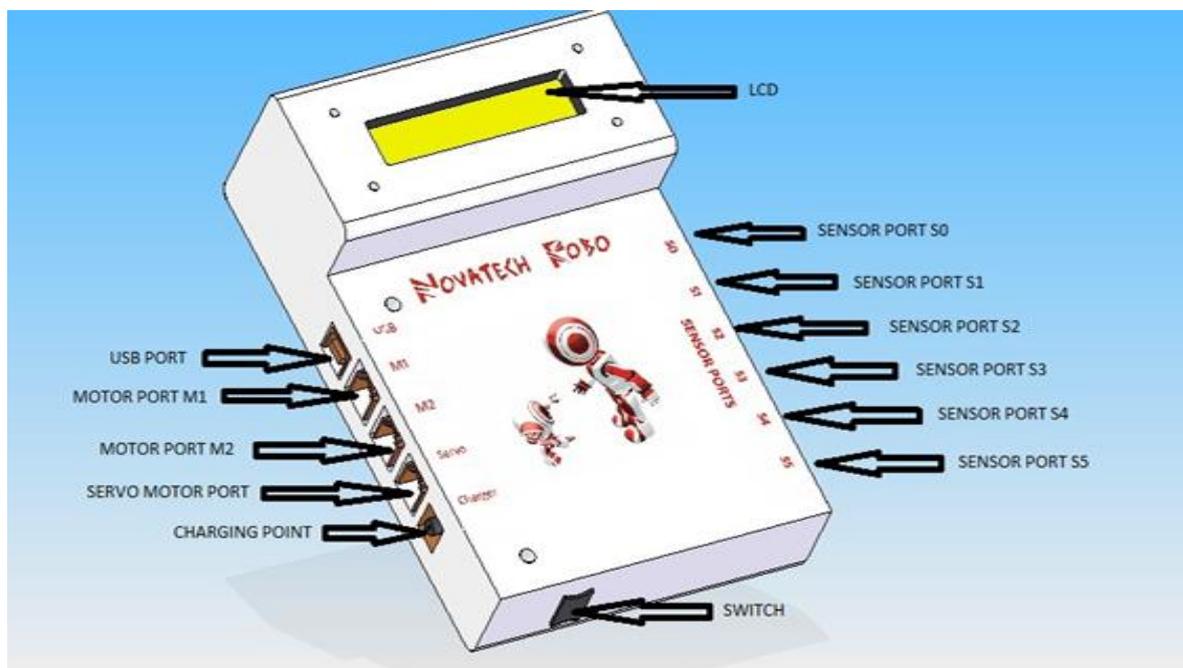


INTRODUCTION TO NOVABOT

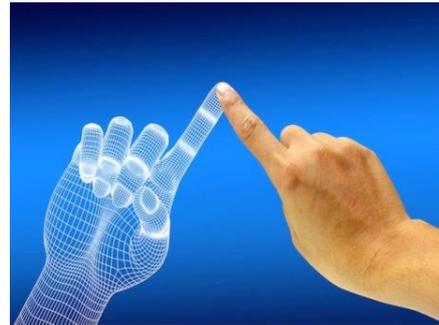
NOVABOT – INTELLIGENT BRICK:

- ❖ Novabot is an intelligent kit which is used to build from small models to big models.
- ❖ It consists of six sensors ports so that we can connect any types of sensors. For example touch sensor, Ultrasonic sensor, IR sensor etc.
- ❖ It consists of two motor ports and one servo motor port.
- ❖ For the programming an special software is being developed for the kids it's an graphical interfacing program



NOVABOT SENSORS AND MOTORS:

- ❖ **TOUCH SENSOR:** The Touch Sensor gives your robot a sense of touch. The Touch Sensor detects when it is being pressed by something and when it is released again.



- ❖ **IR SENSOR:** The Light Sensor is one of the sensors that give your robot vision. The Light Sensor enables your robot to distinguish between light and dark. It can read the light intensity in a room and measure the light intensity of colored surfaces.



- ❖ **ULTRASONIC SENSOR:** The Ultrasonic Sensor is one of the sensors that give your robot vision. The Ultrasonic Sensor enables your robot to see obstacles, sense, measure distance, and detect the movement.



- ❖ **SERVO MOTOR:** The Servo Motor gives your robot the ability to rotate. These are rotary actuators which provide precise angular motion with variable speed. It can rotate from 0 to 180 degree. It can withstand voltage of 5Volt and current of 500MAh. Uses Servomechanism which is implemented using additional circuitry provided in the servomotor case.



- ❖ **DC MOTOR:** It is a battery operated DC Motor which runs with maximum voltage of 7.4V and current of 1ampere. It runs at 150rpm and it has plastic gears inside it.

