**3 ULTRASONIC SENSOR INSTALLING INTO MICROCONTROLER**

#define trigPin1 2

#define echoPin1 3

#define trigPin2 4

#define echoPin2 5

#define trigPin3 6

#define echoPin3 7

long duration, distance, RightSensor,BackSensor,FrontSensor,LeftSensor;

void setup()

{

Serial.begin (9600);

pinMode(trigPin1, OUTPUT);

pinMode(echoPin1, INPUT);

pinMode(trigPin2, OUTPUT);

pinMode(echoPin2, INPUT);

pinMode(trigPin3, OUTPUT);

pinMode(echoPin3, INPUT);

}

void loop()

{

SonarSensor(trigPin1, echoPin1);

RightSensor = distance;

SonarSensor(trigPin2, echoPin2);

LeftSensor = distance;

SonarSensor(trigPin3, echoPin3);

FrontSensor = distance;

Serial.print(LeftSensor);

Serial.print(" - ");

Serial.print(FrontSensor);

Serial.print(" - ");

Serial.println(RightSensor);

}

void SonarSensor(int trigPin,int echoPin)

{

digitalWrite(trigPin, LOW);

delayMicroseconds(2);

digitalWrite(trigPin, HIGH);

delayMicroseconds(10);

digitalWrite(trigPin, LOW);

duration = pulseIn(echoPin, HIGH);

distance = (duration/2) / 29.1;

}