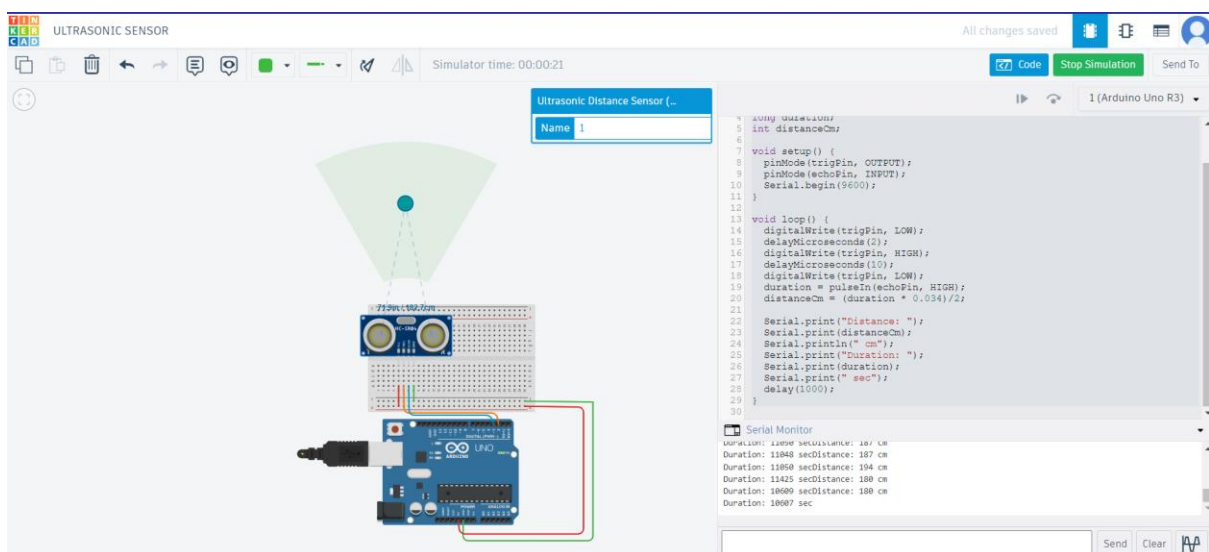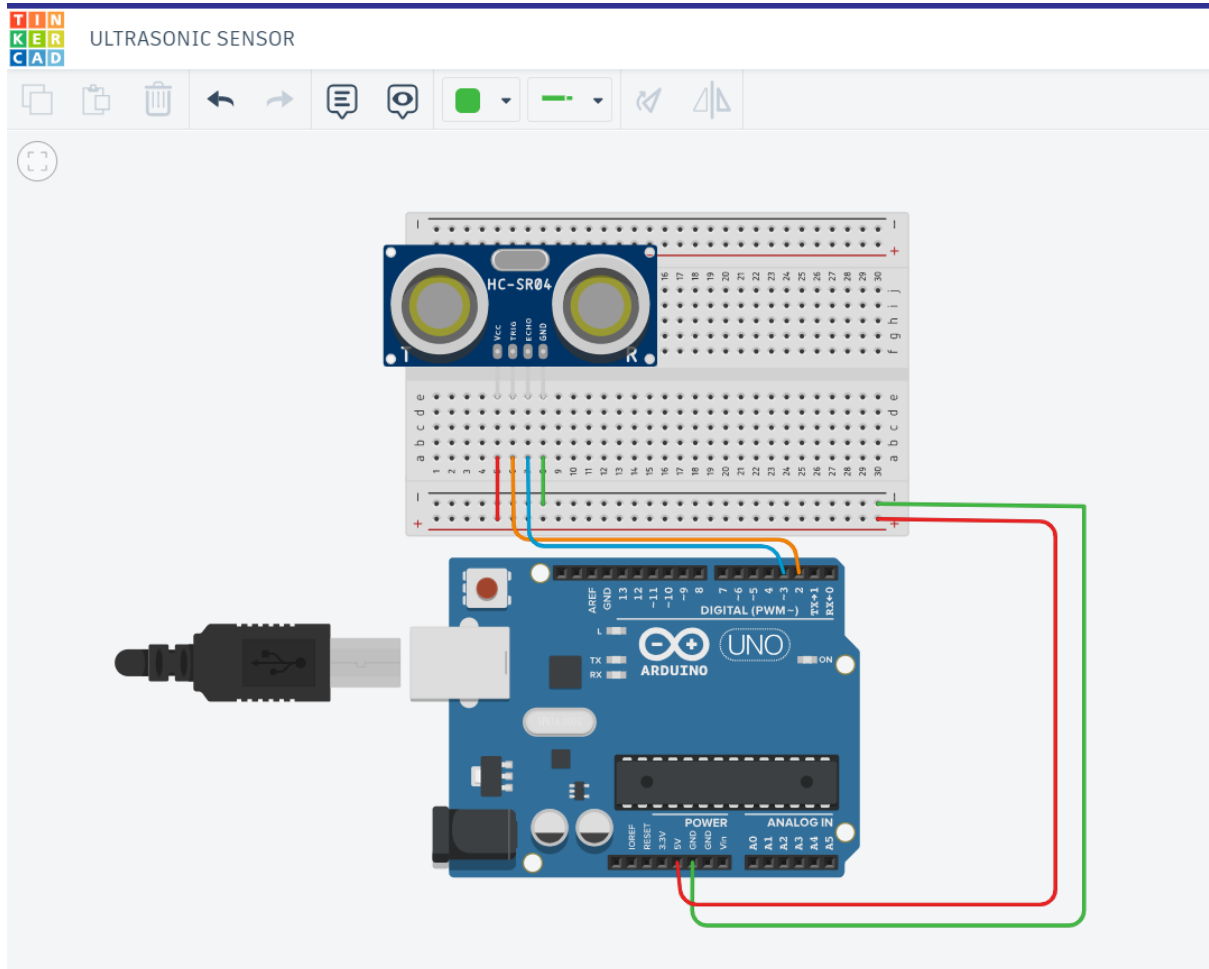Name: **B. SAI CHARAN**

Roll No: **2203A51L72 (Batch-12)**

EXPERIMENT 6b: Interface Ultrasonic sensor with Arduino board.

CODE:

```
int trigPin = 2;
int echoPin = 3;

long duration;
int distanceCm;

void setup() {
  pinMode(trigPin, OUTPUT);
  pinMode(echoPin, INPUT);
  Serial.begin(9600);
}
void loop() {
  digitalWrite(trigPin, LOW);
  delayMicroseconds(2);
  digitalWrite(trigPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigPin, LOW);
  duration = pulseIn(echoPin, HIGH);
  distanceCm = (duration * 0.034)/2;

  Serial.print("Distance: ");
  Serial.print(distanceCm);
  Serial.println(" cm");
  Serial.print("Duration: ");
  Serial.print(duration);
  Serial.print(" sec");
  delay(1000);
}
```

OUTPUT:

Serial Monitor

Duration: 3438 secDistance: 58 cm
Duration: 3438 secDistance: 290 cm
Duration: 17079 secDistance: 238 cm
Duration: 14008 secDistance: 187 cm
Duration: 11050 secDistance: 187 cm
Duration: 11050 sec