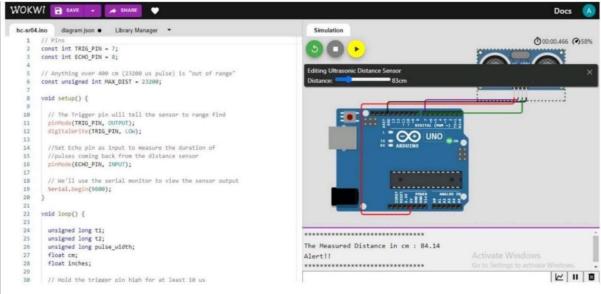
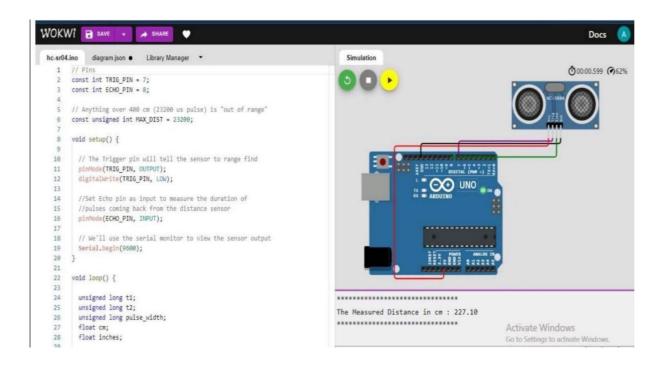
```
const int TRIG_PIN = 7;
const int ECHO_PIN = 8;
const unsigned int
MAX_DIST = 23200;
void setup() {
Mode(TRIG PIN, OUTPUT);
digital Write(TRIG_PIN, LOW);
pinMode(ECHO_PIN, INPUT);
Serial.begin(9600);
}
void loop() {
unsigned long t1;
unsigned long t2;
 unsigned long pulse_width;
 float cm;
 float inches;
digitalWrite(TRIG_PIN, HIGH);
delayMicroseconds(10);
digitalWrite(TRIG_PIN, LOW);
while (digitalRead( ECHO_PIN )==0 );
 t1= micros ();
 while (digitalRead(ECHO_PIN) == 1);
  t2= micros ();
  pulse width = t2-t1;
 cm=pulse Width / 58;
 inches = pulse_width/148.0;
```

Output:

1. If the distance is less than 100 cms ,it alerts.



2. If the distance is more than 100 cms, it won't alert



3. Simulation and code execution

