**ASSIGNMENT 4**

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**CODE:**

const int TP =7; const int echop = 8;

unsigned int max\_d =23300; void setup(){

pinMode(TP,OUTPUT); digitalWrite(TP,LOW); pinMode(echop,INPUT);

Serial.begin(9600);

}

void loop(){ unsigned long t1; unsigned long t2; unsigned long pw; float cm;

float inches;

digitalWrite(TP,HIGH); delayMicroseconds(10); digitalWrite(TP,LOW); while(digitalRead(echop)==0); t1 =micros();

while (digitalRead(echop)==1); t2=micros();

pw=t2-t1; cm=pw/58; inches=pw/148.0;

if(pw>max\_d)

{

Serial.println("Out of range");

}

else

{

Serial.println("\*\*\*\*"); Serial.print("The distance is"); Serial.println(cm);

if(cm<100){

}Serial.print("\*\*\*\*");

}

delay(1000);

}

