ASSIGNMENT 2

```
Int b=2;
Int c=3;
Void setup() {
Serial.begin(9600);
pinMode(b,OUTPUT);
pinMode(c,INPUT);
pinMode(12,OUTPUT);
} void loop() {
digitalWrite(b,LOW);
digitalWrite(b,HIGH);
delayMicroseconds(10);
digitalWrite(b,LOW);
float dur=pulseIn(e,HIGH); float dis=(dur*0.0343)/2;
Serial.print("Distance is: ");
Serial.println(dis);
If(dis>=100) {
digitalWrite(8,HIGH);
digitalWrite(7,HIGH);
}
If(dis>=100)
{
For(int i=0; i<=30000; i=i+10)
{
Tone(12,i);
Delay(1000);
noTone(12);
delay(1000);
}
} double a= analogRead(A0);
```

```
Double b=(((a/1024)*5)-0.5)*100;

Serial.print("Temp        Value:        ");        S

Serial.println(b);   Delay(1000);    if(t>=100)   {

digitalWrite(8,HIGH);digitalWrite(7,HIGH);

} if(b>=100)

{

For(int i=0; i<=30000; i=i+10)

{

Tone(12,i);

Delay(1000);

noTone(12);

delay(1000);

}

} if(b<100)

{


digitalWrite(7,LOW);

} } digitalWrite(8,LOW); digitalWrite(7,LOW); } }
```