

Assignment-1

Int temperature_sensor=A0;

Int ultra_in=3,PIR=4,photo_diode=5;

Int ultra_out = 2,led_r=13,sound1=12,bulb=9,sound2=11,led_b=10,led_g=8;

Void setup()

```
{  
  Serial.begin(9600);  
  pinMode(ultra_in,INPUT);  
  pinMode(ultra_out,OUTPUT);  
  pinMode(led_r,OUTPUT);  
  pinMode(sound1,OUTPUT);  
  pinMode(temperature_sensor,INPUT);  
  pinMode(PIR,INPUT);  
  pinMode(bulb,OUTPUT);  
  pinMode(photo_diode,INPUT_PULLUP);  
  pinMode(sound2,OUTPUT);  
  pinMode(led_b,OUTPUT);  
  pinMode(led_g,OUTPUT);  
}
```

Void loop()

```
{  
  //PIR for motion detection and alerting  
  Double x=digitalRead(PIR);  
  If(x)  
  {  
  
    Tone(sound1,30);
```

```
    Delay(10);
```

```
}
```

```
Else
```

```
{
```