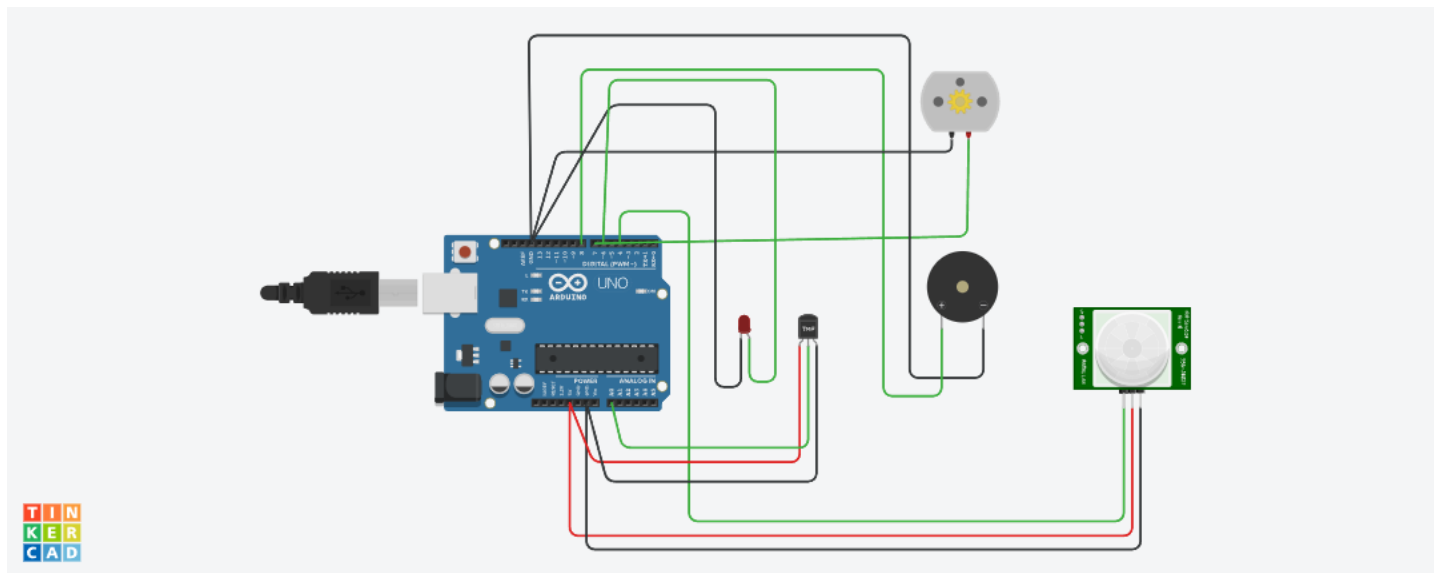


SMART WASTE MANAGEMENT FOR METROPOLITAN CITIES

ASSIGNMENT 1

Circuit Diagram:



Program:

```
const int pir =4;
```

```
const int temp = A0;
```

```
int led =6;
```

```
int motor =7;
```

```
int buzzer =8;
```

```
void setup()
```

```
{
```

```
  Serial.begin(9600);
```

```
  pinMode(pir,INPUT);
```

```
  pinMode(temp,INPUT);
```

```
  pinMode(led,OUTPUT);
```

```
  pinMode(motor,OUTPUT);
```

```
  pinMode(buzzer,OUTPUT);
```

```
}
```

```
void loop()
```

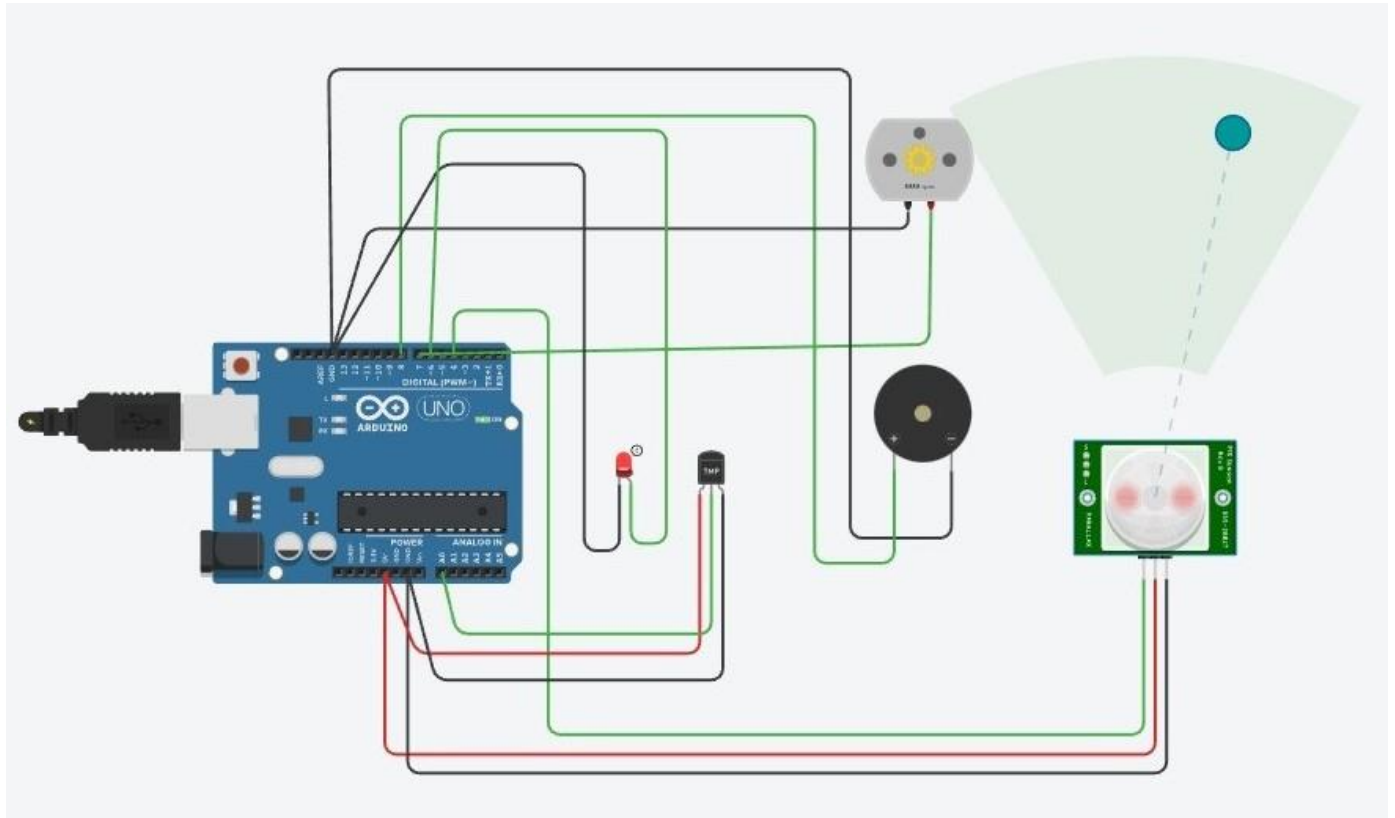
```
{
```

```
  int pirval = digitalRead(pir);
```

```
  int tempval = analogRead(temp);
```

```
if(pirval == HIGH)
{
    digitalWrite(led,HIGH);
}
else
{
    digitalWrite(led,LOW);
}
if(tempval>=200)
{
    digitalWrite(motor,HIGH);
    digitalWrite(buzzer,HIGH);
}
else
{
    digitalWrite(motor,LOW);
    digitalWrite(buzzer,LOW);
}
}
```

Simulated Output:



TINKERCAD LINK:

https://www.tinkercad.com/things/aXrfqLwklZw-assignment-1/editel?sharecode=aMIJ6DAn4qBlcGKhdcDo77bzN_5ExlecRgth-0qMAKk