

PR:01

Title: Understanding the connectivity of Raspberry-Pi / Adriano with IR sensor. Write an application to detect obstacle and notify user using LEDs.

CODE:

```
int pirsensor=0;

void setup()

{

    pinMode(12,OUTPUT);

    pinMode(13,OUTPUT);

    pinMode(2,INPUT);

}


void loop()

{

    pirsensor=digitalRead(2);

    if(pirsensor==HIGH)

    {

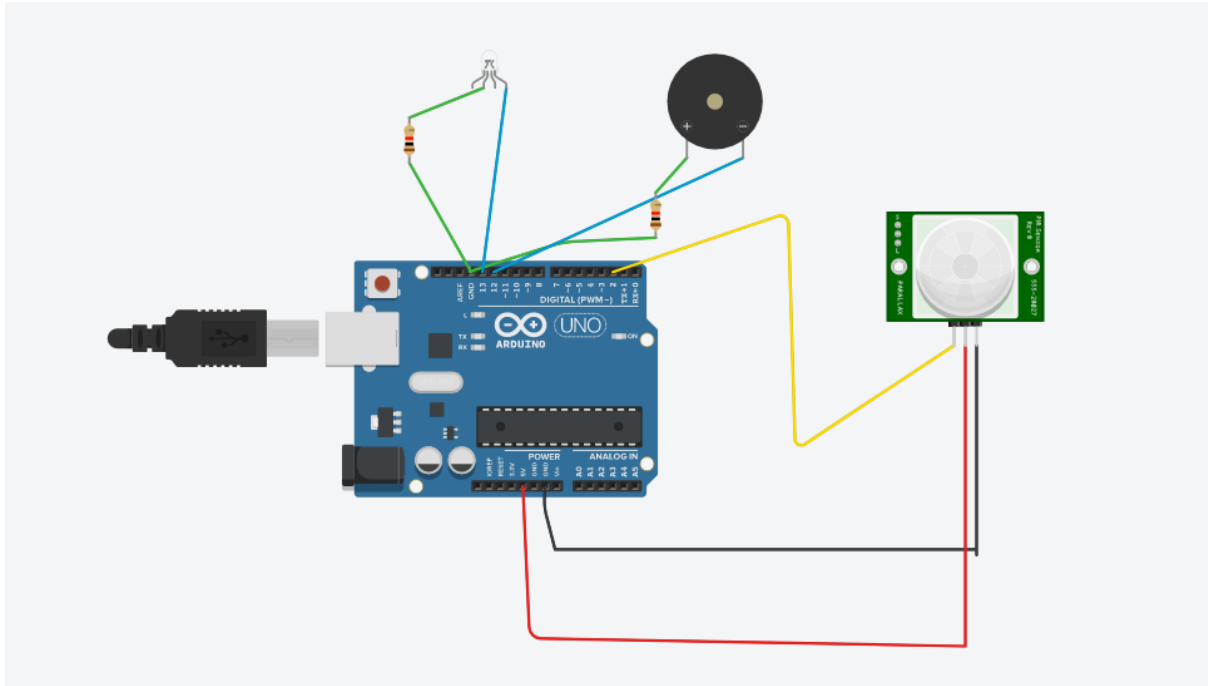
        digitalWrite(13,HIGH);

        tone(12,500,500);

    }

    digitalWrite(13,LOW);

}
```



PR:02

Title: Understanding the connectivity of Raspberry-Pi /Beagle board circuit with temperature sensor. Write an application to read the environment temperature. If temperature crosses a threshold value, generate alerts using LEDs.

CODE:

```
int tsensor;
```

```
void setup()
```

```
{
```

```
  pinMode(A2,INPUT);
```

```
  pinMode(13,OUTPUT);
```

```
  pinMode(12,OUTPUT);
```

```
}
```

```
void loop()
```

```
{  
  tsensor=analogRead(A2);  
  if(tsensor >= 200)  
  {  
    digitalWrite(13,HIGH);  
    tone(5,500,500);  
  }  
  
  digitalWrite(13,LOW);  
}
```

