

SPRINT 2

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**Project Name : IOT Based Safety Gadget for Child Safety
Monitoring & Notification.**

```
void setup()
{
  PinMode(buzzerpin,OUTPUT);
  PinMode(trigpin,OUTPUT);
  pinMode(echopin,INPUT);
  serial.begin(9600);
  strip.begin();
  for(int i=0,i=ledNo;i++)
  {
    strip.setpixelcolor(i,strip.color(0,0,0);
  }
  strip.show();
}
void loop()
{
  int distance =calcdistance();
  Serial.println(distance);
  int ledsTOGlow=map (distance,mindi
  stance,maxdistance,ledNo);
  Serial.println(ledsTOGlow);
  if(ledsTOGlow==12)
  {
    digitalWrite(buzzerpin,HIGH);
  }
  else
  {
    digitalWrite (buzzerpin,LOW);
  }
}
```

```
digitalWrite(buzzerpin,HIGH);
}
else
{
digitalWrite (buzzerpin,LOW);
}
for(int i=0;i=ledsTOGlow;i++)
{
if(i<4)
{
strip.setpixelcolor(i,strip.color(50,0,0
));
}
else if (i>=4 && i<=8)
strip.setpixelcolor(i,strip.color(50,50,
0));
}
strip.setpixelcolor(i,strip.color(0,50,0
));
}
}
for(int i=ledsTOGlow;i<ledNo;i++)
{
strip.setpixelcolor(i,strip.color(0,0,0))
;
}
strip.show();
delay(50);
}
int calcdistance ()
{
```

```
long distance, duration ;  
digital1Write(trigpin,LOW);  
delayMicroseconds(2);  
digital1Write (trigpin,HIGH);  
delayMicroseconds (10);  
digitalWrite (trigpin,LOW);  
duration=pulseIn(echopin,HIGH);  
distance=duration /29/2;  
if(distance >=maxDistance)  
{  
distance=maxDistance;  
}  
if(distance<=minDistance)  
{  
distance=minDistance;  
}  
return distance;  
}
```

