

SPRINT 1

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

```
int Buzzer= 5;
int LED= 13;
int PIR_sensor= 2;
  int state;
#define echoPin 4
#define trigPin 3
double duration;
int distance;
void setup() {
  pinMode(trigPin, OUTPUT);
  pinMode(echoPin, INPUT);
  pinMode(Buzzer, OUTPUT);
  pinMode(LED, OUTPUT);
  pinMode(PIR_sensor, INPUT);
  Serial.begin(9600);
} void loop() {
  digitalWrite(trigPin, LOW);
  delayMicroseconds(2);

  digitalWrite(trigPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigPin, LOW);
```

```
duration = pulseIn(echoPin, HIGH);
```

```
distance = duration * 0.034 / 2;
```

```
Serial.print("Distance: ");
```

```
Serial.print(distance);
```

```
Serial.println(" cm");
```

```
if(distance<60){
```

```
    digitalWrite(LED, HIGH);
```

```
    Serial.println("Someone is near");
```

```
}
```

```
else
```

```
{
```

```
    digitalWrite(LED, LOW);
```

```
    Serial.println("No one is near");
```

```
}
```

```
state = digitalRead(PIR_sensor);
```

```
if(state == HIGH){
```

```
digitalWrite(Buzzer, HIGH);  
Serial.println("Motion identified");  
}  
else  
{  
  
    digitalWrite(Buzzer, LOW);  
    Serial.println("No motion");  
}  
}
```

