SPRINT 1

**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");

}

}

