

# DELIVERY OF SPRINT-1

## TEAM ID : PNT2022TMID33842

### PROGRAM:

```
int t=2;
int e=3;
void setup()
{
  pinMode(t,OUTPUT);
  pinMode(e,INPUT);
  pinMode(12,OUTPUT);
  pinMode(11,OUTPUT);
  pinMode(4,INPUT);
  Serial.begin(9600);
}
void loop()
{
  /* The Ultrasonic sensors can be used
  by parents to detect if the child is within a given coverage
  area and gives an alarm when the child goes away from them*/
```

```
digitalWrite(t,9);
digitalWrite(t,1);
delayMicroseconds(10);
digitalWrite(t,0);
float dur = pulseIn(e,HIGH);
float dis = (dur*0.0343)/2;
Serial.print("Distance in cm is: ");
Serial.println(dis);
if(dis<15)
{
    tone(12,30);
    delay(1000);
}
else
{
    noTone(12);
    delay(1000);
}
/*The PIR sensors are used to detect the presence of humans
or any other animals which are very close to the child*/
digitalWrite(11,LOW);
int a = digitalRead(4);
```

```

if(a==1)
{
  Serial.println("Motion Detected");
  digitalWrite(11,HIGH);
}
}

```

