ASSIGNMENT-1

TEAM CODE: PNT2022TMID00858

CODE:

```
int motor=4;
int  pir=7;
int echo=5;
int trigg=6;
int  pir_led=12;
int   us_led=13;
int time;
int dist;
void setup()
{
  Serial.begin(9600);
  pinMode(pir_led,OUTPUT);
  pinMode(us_led,OUTPUT);
  pinMode(motor,OUTPUT);
  pinMode(pir,INPUT);
  pinMode(echo,INPUT);
  pinMode(trigg,OUTPUT);
}
void loop()
{
  if(digitalRead(pir)==HIGH){
    Serial.println("There is a person...");
    digitalWrite(pir_led,HIGH);
```

```
    delay(1000);
  }
  digitalWrite(pir_led,LOW);
  digitalWrite(trigg,HIGH);
  delayMicroseconds(10);
  digitalWrite(trigg,LOW);
  time=pulseIn(echo,HIGH);
  dist=(time*0.034)/2;
  if(dist<=100)
  {
    Serial.println("A personNear...");
    digitalWrite(us_led,HIGH);
    digitalWrite(motor,HIGH);
    delay(1000);
  }
  else
  {
    digitalWrite(us_led,LOW);
    digitalWrite(motor,LOW);
    delay(1000);
  }
}
```