Assignment -1
Smart Home Automation

Assignment Date	9 September 2022
Student Name	Ms.SriHarini
Student Roll Number	422119106009
Maximum Marks	2 Marks

Question:

Smart Home Automation

Title:

   Indication of obstacle while car parking with buzzar .

Solution:	
| | ```cpp
// C++ code
//
int p=0;
long duration;
int distance;
int s;
void setup()
{
  pinMode(13,OUTPUT);
  pinMode(2,INPUT);
  pinMode(9,OUTPUT);
  pinMode(10,INPUT);
  pinMode(11,OUTPUT);
  pinMode(4,OUTPUT);
}
``` |

```
void loop()
{
 p=digitalRead(2);
  if (p==1)
  {
    digitalWrite(13,HIGH);
  }
  else
  {
    digitalWrite(13,LOW);
  }
  delay(10);

  digitalWrite(9,LOW);
  delayMicroseconds(2);
  digitalWrite(9,HIGH);
  delayMicroseconds(10);
  digitalWrite(9,LOW);
  duration=(10,HIGH);
  distance=duration*0.034/2;
  s=distance;
  if(s<=5)
  {
    tone(11,1000,500);
    digitalWrite(4,HIGH);
  }
  else
  {
    digitalWrite(11,LOW);
    digitalWrite(4,LOW);
```

| | ```
}

}
``` |

Circuit: