

parking cars place

```
void setup()
{
  pinMode(10, OUTPUT); // ירוקה נורה
  pinMode(11, OUTPUT); // אדומה נורה
  pinMode(12, OUTPUT); // לשער 1 חיבור
  pinMode(9, OUTPUT); // לשער 2 חיבור
  pinMode(13, OUTPUT); // רמקול
```

```
// הגדרת חניות בצבעים שונים
```

```
pinMode(1, OUTPUT); //אפורה נורה
pinMode(3, OUTPUT); // כתומה נורה
pinMode(4, OUTPUT); // כחולה נורה
pinMode(5, OUTPUT); // צהובה נורה
pinMode(6, OUTPUT); // אדומה נורה
pinMode(7, OUTPUT); // ירוקה נורה
}
```

```
void loop()
```

```
{
  static int ctr=0; //שבוצעה הלחיצה מספר
  static bool button_down = false;
```

```
digitalWrite(11, 1); // נורה אדומה דולקת
digitalWrite(13, 0); // מכובה רמקול
```

```
if (ctr < 2){
  digitalWrite(1, 1);
```

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```

```
}
```

```
if (ctr < 3){
  digitalWrite(3, 1);
```

```
}
```

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```
if (ctr < 4){  
    digitalWrite(4, 1);  
}  
if (ctr < 5){  
    digitalWrite(5, 1);  
}  
if (ctr < 6){  
    digitalWrite(6, 1);  
}  
if (ctr < 7){  
    digitalWrite(7, 1);  
}
```

// אם בוצעה לחיצה על כפתור וגם משתנה מוגדר כלחץ תעשה פלוס פלוס

```
if(button_down == false && digitalRead((2))==1){  
    ctr++;  
    button_down=true;  
}  
// משתנה מוגדר כלא לחץ  
else if(digitalRead((2))==0)  
{  
    button_down = false;  
}
```

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```
switch(ctr){
```

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case 1:

```
digitalWrite(1, 0);  
digitalWrite(11,0);  
delay(1000);  
digitalWrite(10,1);  
//tone(13,1000);  
digitalWrite(12, LOW);  
digitalWrite(9, HIGH);  
2000); // שער עולה (delay  
digitalWrite(9, LOW);  
delay(3000);
```

```
ctr++;
```

```
if(ctr==2){  
digitalWrite(11, 1);  
digitalWrite(10, 0);  
8); // כיבוי רמקול (noTone
```

```
digitalWrite(12, HIGH);  
digitalWrite(9, LOW);  
2000); // שער יורד (delay  
digitalWrite(12, LOW);  
delay(1000);  
}  
break;
```

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case 3:

```
digitalWrite(1, 0);
```

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```
digitalWrite(3, 0);  
digitalWrite(11,0);  
delay(1000);  
digitalWrite(10,1);  
//tone(13,1000);  
digitalWrite(12, LOW);  
digitalWrite(9, HIGH);  
2000); // שער עולה (delay  
digitalWrite(9, LOW);  
delay(3000);
```

```
ctr++;
```

```
if(ctr==4){  
digitalWrite(11, 1);  
digitalWrite(10, 0);  
13); // כיבוי רמקול (noTone //
```

```
digitalWrite(12, HIGH);  
digitalWrite(9, LOW);  
2000); // שער יורד (delay  
digitalWrite(12, LOW);  
delay(1000);  
}  
break;
```

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case 5:

```
digitalWrite(1, 0);  
digitalWrite(3, 0);
```

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```
digitalWrite(4, 0);  
digitalWrite(11,0);  
delay(1000);  
digitalWrite(10,1);  
//tone(13,1000);  
digitalWrite(12, LOW);  
digitalWrite(9, HIGH);  
2000); // שער עולה (delay  
digitalWrite(9, LOW);  
delay(3000);
```

```
ctr++;
```

```
if(ctr==6){  
digitalWrite(11, 1);  
digitalWrite(10, 0);  
8); // כיבוי רמקול (noTone
```

```
digitalWrite(12, HIGH);  
digitalWrite(9, LOW);  
2000); // שער יורד (delay  
digitalWrite(12, LOW);  
delay(1000);  
}  
break;
```

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case 7:

```
digitalWrite(1, 0);  
digitalWrite(3, 0);
```

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```
digitalWrite(4, 0);  
digitalWrite(5, 0);  
digitalWrite(11,0);  
delay(1000);  
digitalWrite(10,1);  
tone(13,1000);  
digitalWrite(12, LOW);  
digitalWrite(9, HIGH);  
2000); // שער עולה (delay  
digitalWrite(9, LOW);  
delay(3000);
```

```
ctr++;
```

```
if(ctr==8){  
digitalWrite(11, 1);  
digitalWrite(10, 0);  
13); // כיבוי רמקול (noTone
```

```
digitalWrite(12, HIGH);  
digitalWrite(9, LOW);  
2000); // שער יורד (delay  
digitalWrite(12, LOW);  
delay(1000);  
}  
break;
```

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```
case 9:  
digitalWrite(1, 0);
```

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```
digitalWrite(3, 0);
digitalWrite(4, 0);
digitalWrite(5, 0);
digitalWrite(6, 0);
digitalWrite(11,0);
delay(1000);
digitalWrite(10,1);
tone(13,1000);
digitalWrite(12, LOW);
digitalWrite(9, HIGH);
2000); // שער עולה (delay
digitalWrite(9, LOW);
delay(3000);

ctr++;

if(ctr==10){
digitalWrite(11, 1);
digitalWrite(10, 0);
13);// כיבוי רמקול (noTone

digitalWrite(12, HIGH);
digitalWrite(9, LOW);
2000); // שער יורד (delay
digitalWrite(12, LOW);
delay(3000);
}
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break;
```

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case 11:

```
digitalWrite(1, 0);
```

```
digitalWrite(3, 0);
```

```
digitalWrite(4, 0);
```

```
digitalWrite(5, 0);
```

```
digitalWrite(6, 0);
```

```
digitalWrite(7, 0);
```

```
digitalWrite(11,0);
```

```
delay(1000);
```

```
digitalWrite(10,1);
```

```
tone(13,1000);
```

```
digitalWrite(12, LOW);
```

```
digitalWrite(9, HIGH);
```

```
2000); // שער עולה (delay
```

```
digitalWrite(9, LOW);
```

```
delay(3000);
```

```
ctr++;
```

```
if(ctr==12){
```

```
digitalWrite(11, 1);
```

```
digitalWrite(10, 0);
```

```
13); // כיבוי רמקול (noTone
```

```
digitalWrite(12, HIGH);
```

```
digitalWrite(9, LOW);
```

```
2000); // שער יורד (delay
```

```
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```

```
digitalWrite(12, LOW);
```

```
delay(3000);
```


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```
digitalWrite(1, 0);  
digitalWrite(3, 0);  
digitalWrite(4, 0);  
digitalWrite(5, 0);  
digitalWrite(6, 0);  
digitalWrite(7, 0);  
}  
break;  
}  
}
```