

```
int a = 2;
```

```
int b = 3;
```

```
int c = 4;
```

```
int d = 5;
```

```
int e = 6;
```

```
int f = 8;
```

```
int g = 9;
```

```
void setup() {
```

```
    pinMode(a, OUTPUT); //A
```

```
    pinMode(b, OUTPUT); //B
```

```
    pinMode(c, OUTPUT); //C
```

```
    pinMode(d, OUTPUT); //D
```

```
    pinMode(e, OUTPUT); //E
```

```
    pinMode(f, OUTPUT); //F
```

```
    pinMode(g, OUTPUT); //G
```

```
}
```

```
void displayDigit(int digit)
```

```
{
```

```
    //Conditions for displaying segment a
```

```
    if(digit!=1 && digit != 4)
```

```
        digitalWrite(a,HIGH);
```

```
    //Conditions for displaying segment b
```

```
    if(digit != 5 && digit != 6)
```

```
        digitalWrite(b,HIGH);
```

```
    //Conditions for displaying segment c
```

```
    if(digit !=2)
```

```
        digitalWrite(c,HIGH);
```

```
    //Conditions for displaying segment d
```

```
    if(digit != 1 && digit !=4 && digit !=7)
```

```
        digitalWrite(d,HIGH);
```

```
//Conditions for displaying segment e
```

```
if(digit == 2 || digit ==6 || digit == 8 || digit==0)
```

```
digitalWrite(e,HIGH);
```

```
//Conditions for displaying segment f
```

```
if(digit != 1 && digit !=2 && digit!=3 && digit !=7)
```

```
digitalWrite(f,HIGH);
```

```
if (digit!=0 && digit!=1 && digit !=7)
```

```
digitalWrite(g,HIGH);
```

```
}
```

```
void turnOff()
```

```
{
```

```
digitalWrite(a,LOW);
```

```
digitalWrite(b,LOW);
```

```
digitalWrite(c,LOW);
```

```
digitalWrite(d,LOW);
```

```
digitalWrite(e,LOW);
```

```
digitalWrite(f,LOW);
```

```
digitalWrite(g,LOW);
```

```
}
```

```
void loop() {
```

```
for(int i=0;i<10;i++)
```

```
{
```

```
displayDigit(i);
```

```
delay(1000);
```

```
turnOff();
```

```
}
```

```
}
```