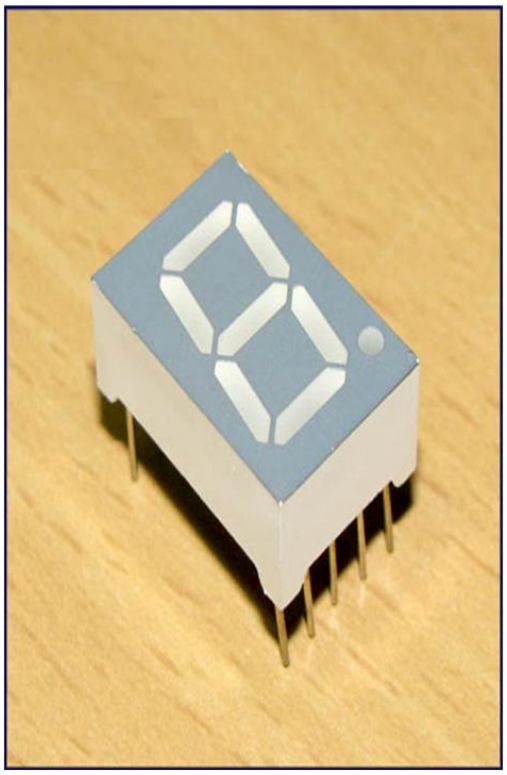
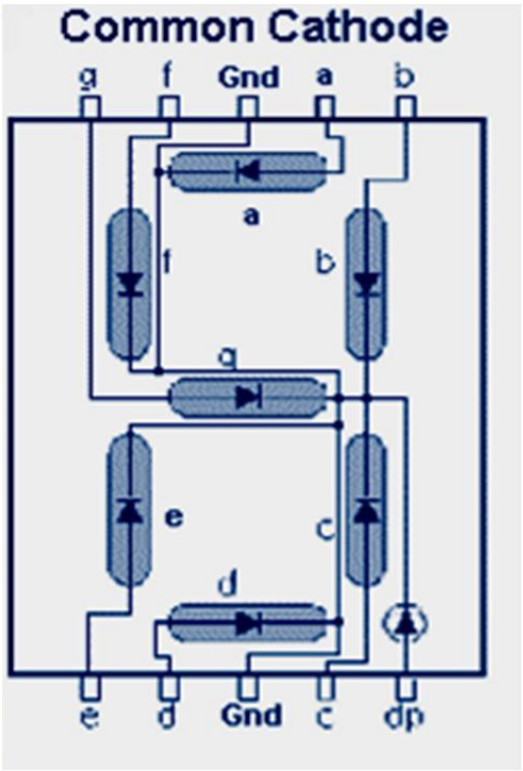
STAC
For software solution

7-Segment



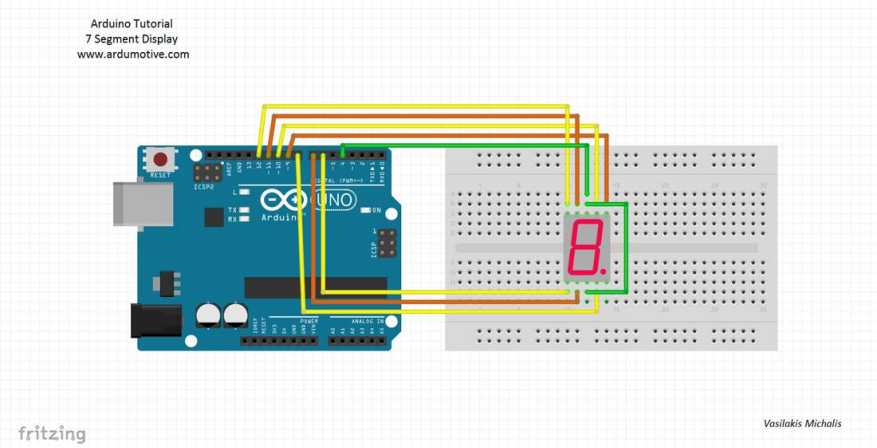


And you can find a tutorial in these links:

https://www.electronics-tutorials.ws/blog/7-segment-display-tutorial.html

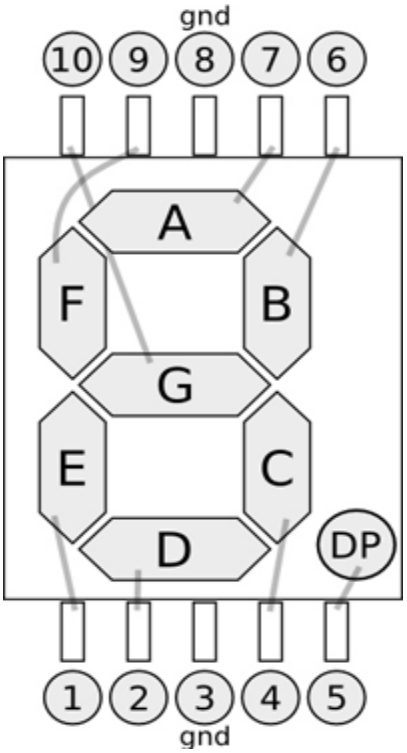
https://www.allaboutcircuits.com/projects/interface-a-seven-segment-display-to-an-arduino/

Connecting:



Code:

Remember that:



Remember also that we are working with common anode that means we are coding with negative logic like if you want to turn on then you write LOW(0) and to turn off write HIGH(1)

The first way:

```
//this code is for common anode
//if you are using comon cathod just change 0s to 1s and 1s to 0s
bool num[10][7]=
{
//{a,b,c,d,e,f,g}
  {0,0,0,0,0,1,0},//0
  {1,0,0,1,1,1,1},//1
  {0,0,1,0,0,0,1},//2
  {0,0,0,0,1,0,1},//3
  {1,0,0,1,1,0,0},//4
  {0,1,0,0,1,0,0},//5
  {0,1,0,0,0,0,0},//6
  {0,0,0,1,1,1,1},//7
  {0,0,0,0,0,0,0},//8
  {0,0,0,0,1,0,0},//9
};
void setup() {
  // put your setup code here, to run once:
  //define the pins as output pins
  //A==>3,B==>4,C==>5,D==>6,E==>7,F==>8,G==>9,db==>10
  for(int i=3;i<10;i++)
  {
    pinMode(i,OUTPUT);
  }
}


void loop() {
  // put your main code here, to run repeatedly:
  for(int i=0; i<10;i++)
  {
    for(int k=0,m=3;k<7&&m<10;k++,m++)

      digitalWrite(m,num[i][k]);
    }
    delay(1000);
  }
  delay(500);
}
```

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