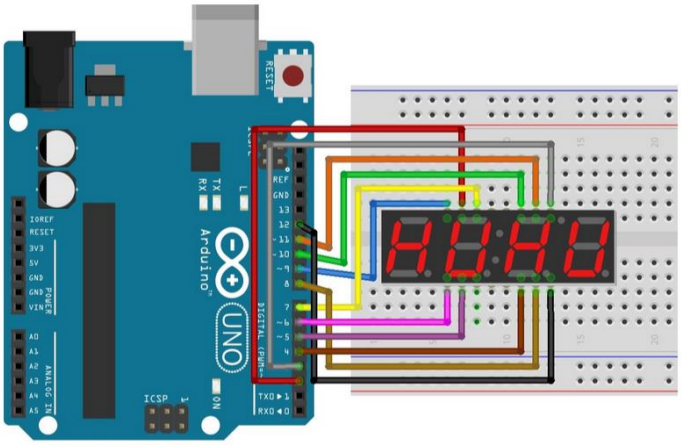
```
/*
```



```
Εμφάνιση αριθμών από το 0 – 9 ανά sec
    A
   ---
G |   | B
  | F |
   ---
E |   | C
  |   |
   ---
    D

//One Digit 7-Segment LED Display

int a=7;
int b=6;
int c=5;
int d=11;
int e=10;
int f=8;
int g=9;
int dp=4;
//display number 1
void display1(void)
{

    digitalWrite(a,LOW);
    digitalWrite(b,HIGH);
    digitalWrite(c,HIGH);
    digitalWrite(d,LOW);
    digitalWrite(e,LOW);
    digitalWrite(f,LOW);
    digitalWrite(g,LOW);
    digitalWrite(dp,LOW);
}
//display number2
void
  display2(void)
{
    digitalWrite(a,HIGH);
    digitalWrite(b,HIGH);
```

```
    digitalWrite(c,LOW);
    digitalWrite(d,HIGH);
    digitalWrite(e,HIGH);
    digitalWrite(f,HIGH);
    digitalWrite(g,LOW);
    digitalWrite(dp,LOW);
}

// display number3
void display3(void)
{
    digitalWrite(a,HIGH);
    digitalWrite(b,HIGH);
    digitalWrite(c,HIGH);
    digitalWrite(d,HIGH);
    digitalWrite(e,LOW);
    digitalWrite(f,HIGH);
    digitalWrite(g,LOW);
    digitalWrite(dp,LOW);
}
// display number4
void display4(void)
{

    digitalWrite(a,LOW);
    digitalWrite(b,HIGH);
    digitalWrite(c,HIGH);
    digitalWrite(d,LOW);
    digitalWrite(e,LOW);
    digitalWrite(f,HIGH);
    digitalWrite(g,HIGH);
    digitalWrite(dp,LOW);
}
// display number5
void display5(void)

{
    digitalWrite(a,HIGH);
    digitalWrite(b,LOW);
    digitalWrite(c,HIGH);
    digitalWrite(d,HIGH);
    digitalWrite(e,LOW);
    digitalWrite(f,HIGH);
    digitalWrite(g,HIGH);
    digitalWrite(dp,LOW);
}
// display number6
void
  display6(void)
{
    digitalWrite(a,HIGH);
    digitalWrite(b,LOW);
    digitalWrite(c,HIGH);
    digitalWrite(d,HIGH);
```

```
    digitalWrite(e,HIGH);
    digitalWrite(f,HIGH);
    digitalWrite(g,HIGH);
    digitalWrite(dp,LOW);
}
// display number7
void display7(void)

{
    digitalWrite(a,HIGH);
    digitalWrite(b,HIGH);
    digitalWrite(c,HIGH);
    digitalWrite(d,LOW);
    digitalWrite(e,LOW);
    digitalWrite(f,LOW);
    digitalWrite(g,LOW);
    digitalWrite(dp,LOW);
}

// display number8
void display8(void)
{
    digitalWrite(a,HIGH);
    digitalWrite(b,HIGH);
    digitalWrite(c,HIGH);
    digitalWrite(d,HIGH);
    digitalWrite(e,HIGH);
    digitalWrite(f,HIGH);
    digitalWrite(g,HIGH);
    digitalWrite(dp,LOW);
}

void display9(void)

{
    digitalWrite(a,HIGH);
    digitalWrite(b,HIGH);
    digitalWrite(c,HIGH);
    digitalWrite(d,HIGH);
    digitalWrite(e,LOW);
    digitalWrite(f,HIGH);
    digitalWrite(g,HIGH);
    digitalWrite(dp,LOW);
}
void display0(void)
{
    digitalWrite(a,HIGH);
    digitalWrite(b,HIGH);
    digitalWrite(c,HIGH);
    digitalWrite(d,HIGH);
    digitalWrite(e,HIGH);
    digitalWrite(f,LOW);
    digitalWrite(g,HIGH);
    digitalWrite(dp,LOW);
```

```
}

void clearDisplay(void)
{
    digitalWrite(a,LOW);
    digitalWrite(b,LOW);
    digitalWrite(c,LOW);
    digitalWrite(d,LOW);
    digitalWrite(e,LOW);
    digitalWrite(f,LOW);
    digitalWrite(g,LOW);
    digitalWrite(dp,LOW);
}
void setup()
{
    int i;
    for(i=4;i<=11;i++)

        pinMode(i,OUTPUT);
        clearDisplay();
}
void loop()
{
    while(1)

    {   clearDisplay();
        display0();
        delay(1000);
        clearDisplay();

        display1();
        delay(1000);
        clearDisplay();

        display2();
        delay(1000);
        clearDisplay();

        display3();
        delay(1000);
        clearDisplay();

        display4();
        delay(1000);
        clearDisplay();

        display5();
        delay(1000);
        clearDisplay();

        display6();
        delay(1000);
        clearDisplay();
```

```
        display7();
        delay(1000);
        clearDisplay();

        display8();
        delay(1000);
        clearDisplay();

        display9();
        delay(1000);
        clearDisplay();
    }
}
```