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/*
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Dami Egbeyemi

CS 207 Lab 2 - Challenge Intermediate

25/09/18

Morse Code - SOS

Turns an speaker on and off in a morse code sequence displaying SOS.

Code modified from

Blink code:

modified 8 May 2014

by Scott Fitzgerald

modified 2 Sep 2016

by Arturo Guadalupi

modified 8 Sep 2016

by Colby Newman

This example code is in the public domain.

(Some comments kept from original code)

http://www.arduino.cc/en/Tutorial/Blink

Arduino Morse Code

Chris Weatherford

https://www.instructables.com/id/Arduino-Morse-Code/

*/

// the setup function runs once when you press reset or power the board int speaker = 8; //symbolic variable for changing speaker Pin number on Arduino Uno

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int dotTime=100; //unit of time variable. specifies dot tone length play time from
speaker.
int dashTime=dotTime*3; //unit of time variable. Specifies dashTime tone length.
int note = 1200;
void setup() {
 // initialize pin speaker as an output.
 pinMode(speaker, OUTPUT); //sends voltage out to the pin speaker BUILTIN
}
// SOS, the S is three dots and the O is three dashes.
void loop() {
 digitalWrite(speaker, HIGH); // turn the speaker on (HIGH is the voltage level)
 tone(speaker, note, dashTime); //Play Tone
 delay(dotTime);
                         // wait for time provided in dotTime variable
 digitalWrite(speaker, LOW); // turn the speaker off by making the voltage LOW
 tone(speaker, note, dashTime);//Play Tone
                         // wait for time provided in dotTime variable
 delay(dotTime);
 digitalWrite(speaker, HIGH); // turn the speaker on (HIGH is the voltage level)
 tone(speaker, note, dashTime);//Play Tone
                         // wait for time provided in dotTime variable
 delay(dotTime);
 digitalWrite(speaker, LOW); // turn the speaker off by making the voltage LOW
 tone(speaker, note, dashTime);//Play Tone
 delay(dotTime);
                         // wait for time provided in dotTime variable
 digitalWrite(speaker, HIGH); // turn the speaker on (HIGH is the voltage level)
 tone(speaker, note, dashTime);//Play Tone
 delay(dotTime);
                         // wait for time provided in dotTime variable
 digitalWrite(speaker, LOW); // turn the speaker off by making the voltage LOW
 tone(speaker, note, dashTime);//Play Tone
 delay(dotTime*3);
                          // wait for time provided in dotTime variable
```

```
digitalWrite(speaker, HIGH); // turn the speaker on (HIGH is the voltage level)
tone(speaker, note, dashTime);//Play Tone
delay(dotTime*3);
                        // wait for time provided in dotTime variable
digitalWrite(speaker, LOW); // turn the speaker off by making the voltage LOW
tone(speaker, note, dashTime);//Play Tone
                        // wait for time provided in dotTime variable
delay(dotTime);
digitalWrite(speaker, HIGH); // turn the speaker on (HIGH is the voltage level)
tone(speaker, note, dashTime);//Play Tone
delay(dotTime*3);
                        // wait for time provided in dotTime variable
digitalWrite(speaker, LOW); // turn the speaker off by making the voltage LOW
tone(speaker, note, dashTime);//Play Tone
delay(dotTime);
                        // wait for time provided in dotTime variable
digitalWrite(speaker, HIGH); // turn the speaker on (HIGH is the voltage level)
tone(speaker, note, dashTime);//Play Tone
delay(dotTime*3);
                        // wait for time provided in dotTime variable
digitalWrite(speaker, LOW); // turn the speaker off by making the voltage LOW
tone(speaker, note, dashTime);//Play Tone
                        // wait for time provided in dotTime variable
delay(dotTime*3);
digitalWrite(speaker, HIGH); // turn the speaker on (HIGH is the voltage level)
delay(dotTime);
                        // wait for time provided in dotTime variable
digitalWrite(speaker, LOW); // turn the speaker off by making the voltage LOW
delay(dotTime);
                       // wait for time provided in dotTime variable
digitalWrite(speaker, HIGH); // turn the speaker on (HIGH is the voltage level)
delay(dotTime);
                       // wait for time provided in dotTime variable
digitalWrite(speaker, LOW); // turn the speaker off by making the voltage LOW
delay(dotTime);
                       // wait for time provided in dotTime variable
```

```
digitalWrite(speaker, HIGH); // turn the speaker on (HIGH is the voltage level)
delay(dotTime); // wait for time provided in dotTime variable
digitalWrite(speaker, LOW); // turn the speaker off by making the voltage LOW
delay(dotTime*7); // wait for time provided in dotTime variable
}
```