Code

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modified Blink

Turns on an LED on for one second, then off for one second, repeatedly.

This example code is in the public domain.

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#define PULSE\_TIME 100

#define DELAY\_TIME 100

char msg[] = "simar";

int flag\_startcomm=1;

char msg\_bit = 'a';

char msg\_char ='a';

void setup() {

// initialize the digital pin as an output.

// Pin 13 has an LED connected on most Arduino boards:

Serial.begin(9600);

pinMode(13, OUTPUT);

}

void loop() {

for (int ch = 0; msg\_char !='\0' ;ch++)

{

// To extract the character from the string

msg\_char = msg[ch];

// here starts the protocol

Serial.flush();

Serial.print("Preparing to send the characteer to computer\n");

Serial.print(msg\_char);

Serial.print("\n\n");

// Delay for 2s

delay(2000);

// Send start bit

digitalWrite(13,HIGH);

delay(DELAY\_TIME);

digitalWrite(13,LOW);

Serial.print("Data is being sent now\n");

for (int n=7; n>=0;n--)

{

// To extract the bits from the character

msg\_bit = msg\_char & (1<<n);

msg\_bit = msg\_bit >>n;

digitalWrite(13,msg\_bit);

Serial.println(msg\_bit,DEC);

Serial.print("\n");

delay(PULSE\_TIME);

}

// one char data has been sent..

digitalWrite(13,0);

Serial.print("The specified char has been sent\n\n\n");

}

}

**Outputs of sender**

Preparing to send the characteer to computer

h

Data is being sent now

0

1

1

0

1

0

0

0

The specified char has been sent

Preparing to send the characteer to computer

e

Data is being sent now

0

1

1

0

0

1

0

1

The specified char has been sent

Preparing to send the characteer to computer

l

Data is being sent now

0

1

1

0

1

1

0

0

The specified char has been sent

Preparing to send the characteer to computer

l

Data is being sent now

0

1

1

0

1

1

0

0

The specified char has been sent

Preparing to send the characteer to computer

o

Data is being sent now

0

1

1

0

1

1

1

1

The specified char has been sent

Preparing to send the characteer to computer