//Global variables and constants are declared at the top of the file

int GREEN\_LED=10;

int RED\_LED=11;

int blinkTimes=0;

//The setup function runs only once when you first start the program

void setup(){

//Initialization code goes here

pinMode(GREEN\_LED,OUTPUT);

pinMode(RED\_LED,OUTPUT);

Serial.begin(9600);

}

//The loop function runs over and over 20 times a second

void loop(){

//Main program code goes here

String typedColour="";

int ledNumber=LED\_BUILTIN;

Serial.println("Please enter a LED colour.");

//Keep waiting for the user to type something

while(Serial.available()==0){

}

//Read what was typed

typedColour=Serial.readString();

//Check what the user typed to set the LED colour

if (typedColour=="green"){

ledNumber=GREEN\_LED;

Serial.println("The GREEN LED is set.");

}

if (typedColour=="red"){

ledNumber=RED\_LED;

Serial.println("The RED LED is set.");

}

//Blink the led 4 times

blinkLed(ledNumber, 4);

Serial.println("Please enter TIMES to blink.");

//Keep waiting for the user to type something

while(Serial.available()==0){

}

//Read what was typed

blinkTimes=Serial.parseInt();

//Blink the led the requested numbe rof times

blinkLed(ledNumber,blinkTimes);

}

//The "blinkLed" function is a procedure that you can define

// to blink the specified LED colour the specified number of times

void blinkLed (int ledColour, int blinkTimes){

for (int i=1;i<=blinkTimes;i++)

{

digitalWrite(ledColour, HIGH);

delay(500);

digitalWrite(ledColour, LOW);

delay(500);

Serial.print("Blink time=");

Serial.println(i);

}

}