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Door lock with screen: Arduino project report

PREPARED BY

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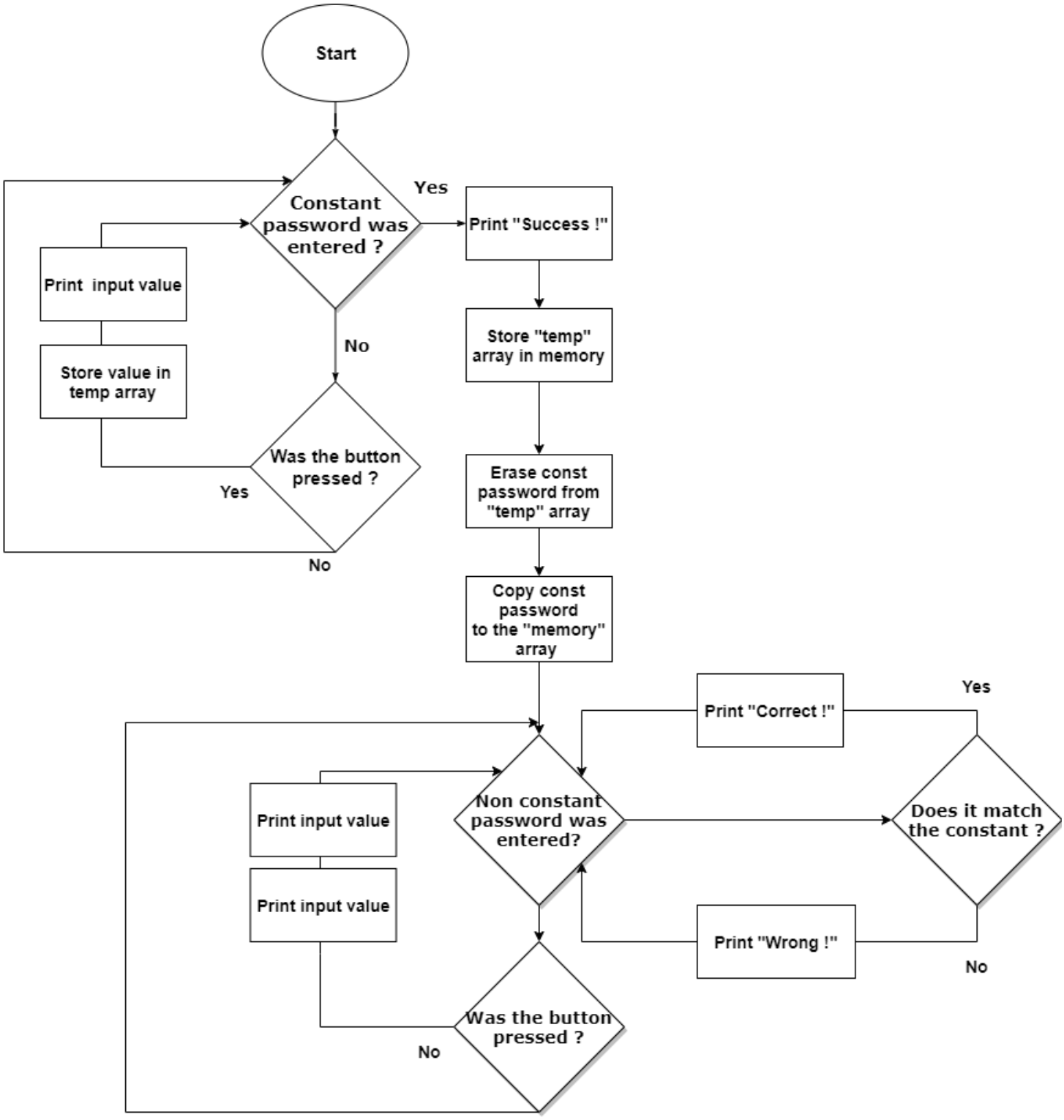
Description

- The goal of this project was to develop a door lock for which you could set your own password and which would display all the neccessary information on the screen for more convenience. Besides the screen and keypad the mechanism also has green and red diodes, the speaker which might be used as a source of additional information and potetiometer whicn you can use in order to regulate the brightness

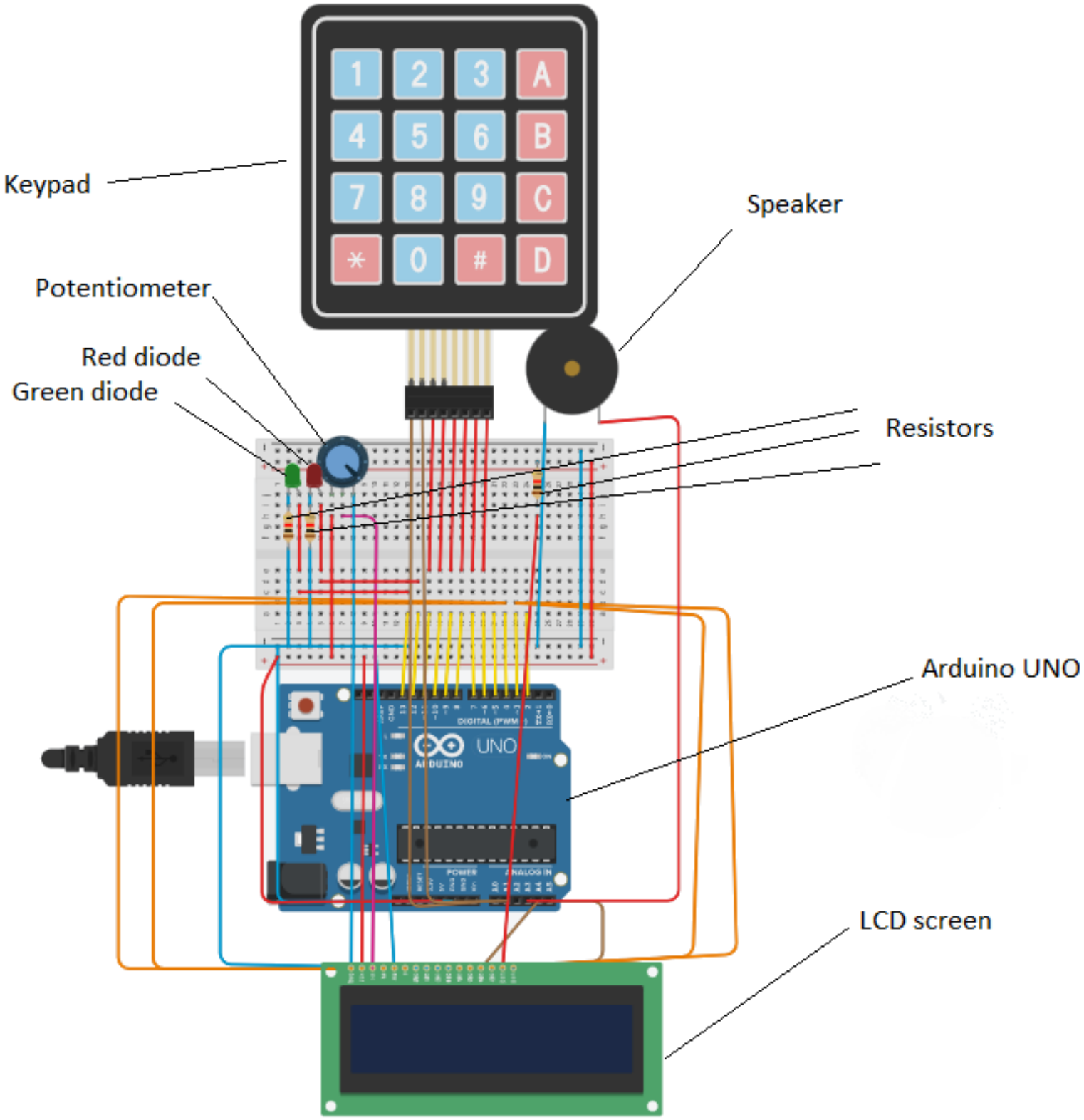
Components used

- Arduino UNO
- Speaker
- Keypad
- LCD screen
- Bread board
- Green diode
- Red diode
- 3 Resistors
- Potentiometer
- Wires

Flowchart of the project



Components location



Code part which sets the password and writing it to the memory


```
void loop ()
{
  if(check_1==false)    //Checking if the original password was
enetered
 {
     key = keypad.getKey();

if (key)
{
digitalWrite (SPEAKER, HIGH);

//Checking if the key was pressed
//And if yes then making beep sound using speaker
//Then printing the entered value on thescreen

delay (50);
digitalWrite (SPEAKER, LOW);
//Serial.println(key);

lcd.print(key);              //Printing value in console
lcd.setCursor (++LCDRow, 0);  //Setting the cursor to the
proper row
temp[i]=key;  //Asigning the start password to array
EEPROM.write ( i, temp [ i ]); //Reading the temp array into
memory
i = i + 1;
  }

  }

  }
```