LAB 9

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Aim:

Communication between microcontrollers

OBJECTIVE

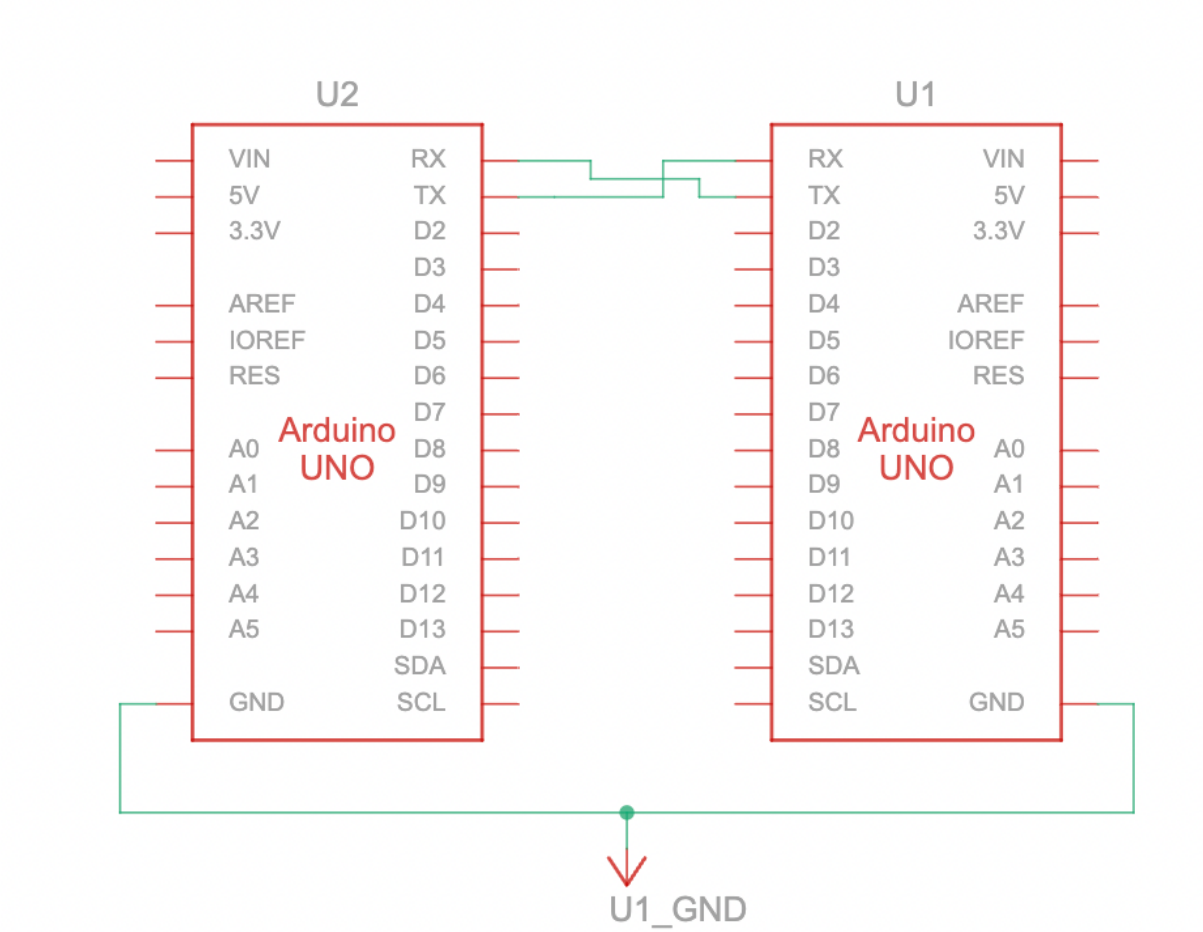
1.To establish a bi-directional serial communication between two microcontrollers.

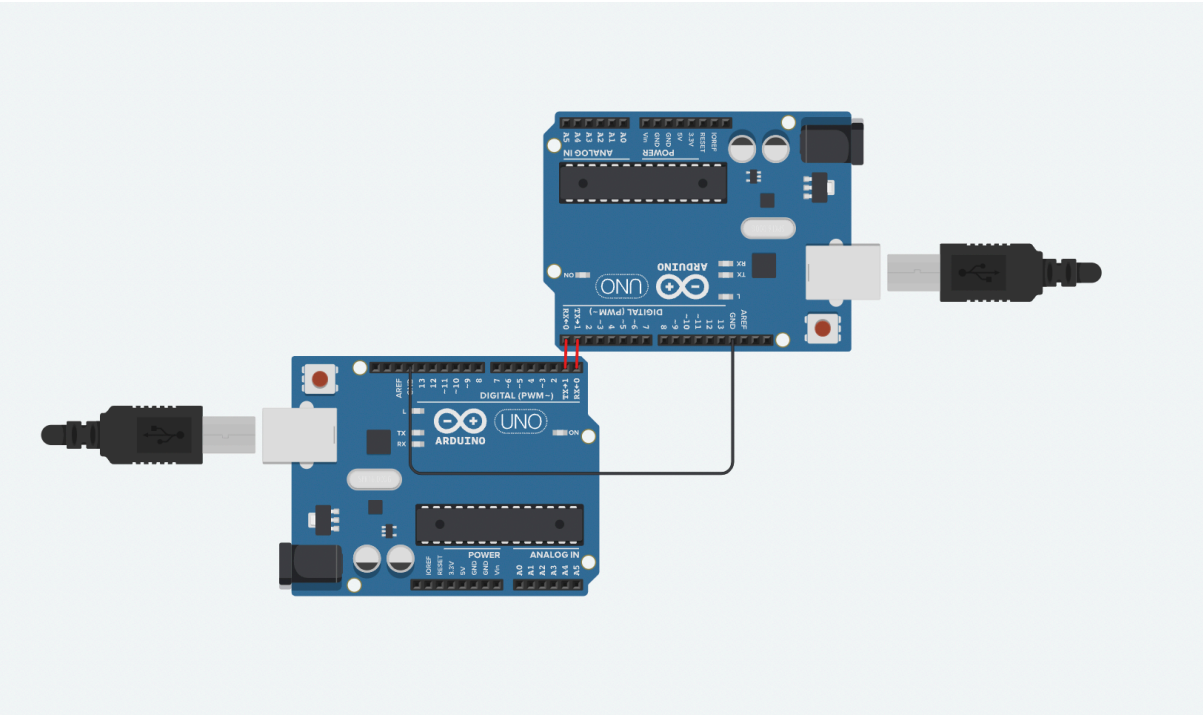
2.To send and receive data between two microcontrollers.

ELECTRONIC COMPONENTS USED

1. Arduino uno
2. connecting wires
3. slide-switches

REFERENCE CIRCUIT:





PROCEDURE

1. Drag two arduinos into the white space. 2.Now , for building a communication between

the arduinos, we will connect tx pin of transmitter Arduino to rx pin of reciver Arduino.

3.Again , we will connect rx pin of transfer Arduino to tx pin of receiver Arduino.

4.Finally, we will connect the ground.

5.We are doing this for switch, so drag the switch and make the connections.

OBSERVATION

Here, if (low), the first Arduino resembles the transmitter and second as receiver and vice versa if (high). Switch could be connected to any of the Arduino. Hereby, we can conclude that transfer of data between two arduinos is bi-directional.

CONCLUSION

In this experiment, we have shown that the transfer of data between two arduinos is bi- directional.

TINKERCAD SIMULATION LINK :

https://www.tinkercad.com/things/98qhd3tLGxF-tremendous-duup/editel?sharecode=qAAiqEcln1niDrPd6NNuu-sVeZ0WG8lcYhpWu0h6TEI