Experiment

Design a digital data display system

Theory:

CONCEPT USED:

1. By using kirchoff's voltage law
2. &
3. By using kirchoff's current law
4. Use of digital data display system
5. Use of LCD
6. Use of potentiometer

LEARNING AND OBSERVATIONS:

1. Connections in Breadboard and wiring.
2. How to control arduino and its coding.
3. Use of multimeter for continuity.
4. Use of potentiometer
5. Liquid crystal display

OBSERVATION:

1. Observation of programme on display
2. Relation between software and hardware.
3. Variation of resistance i.e. potentiometer

PROBLEMS & TROUBLESHOOTING:

1. To select the right port and type of arduino
2. To check the loose connections

3. To check the connections according to the codes
4. To check the continuity of the circuit
5. To check the flow of current in the circuit
6. Errors in code
7. Setting up right connections
8. Display in proper order
9. Pinmodes of LCD

PRECAUTIONS:

1. Handle tools carefully
2. Wear gloves
3. Do not connect arduino till the circuit is complete
4. Do not connect LCD without a variable resistor

OUTCOMES:

1. Display our command as digital data output
2. Proper use of Arduino and breadboard

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