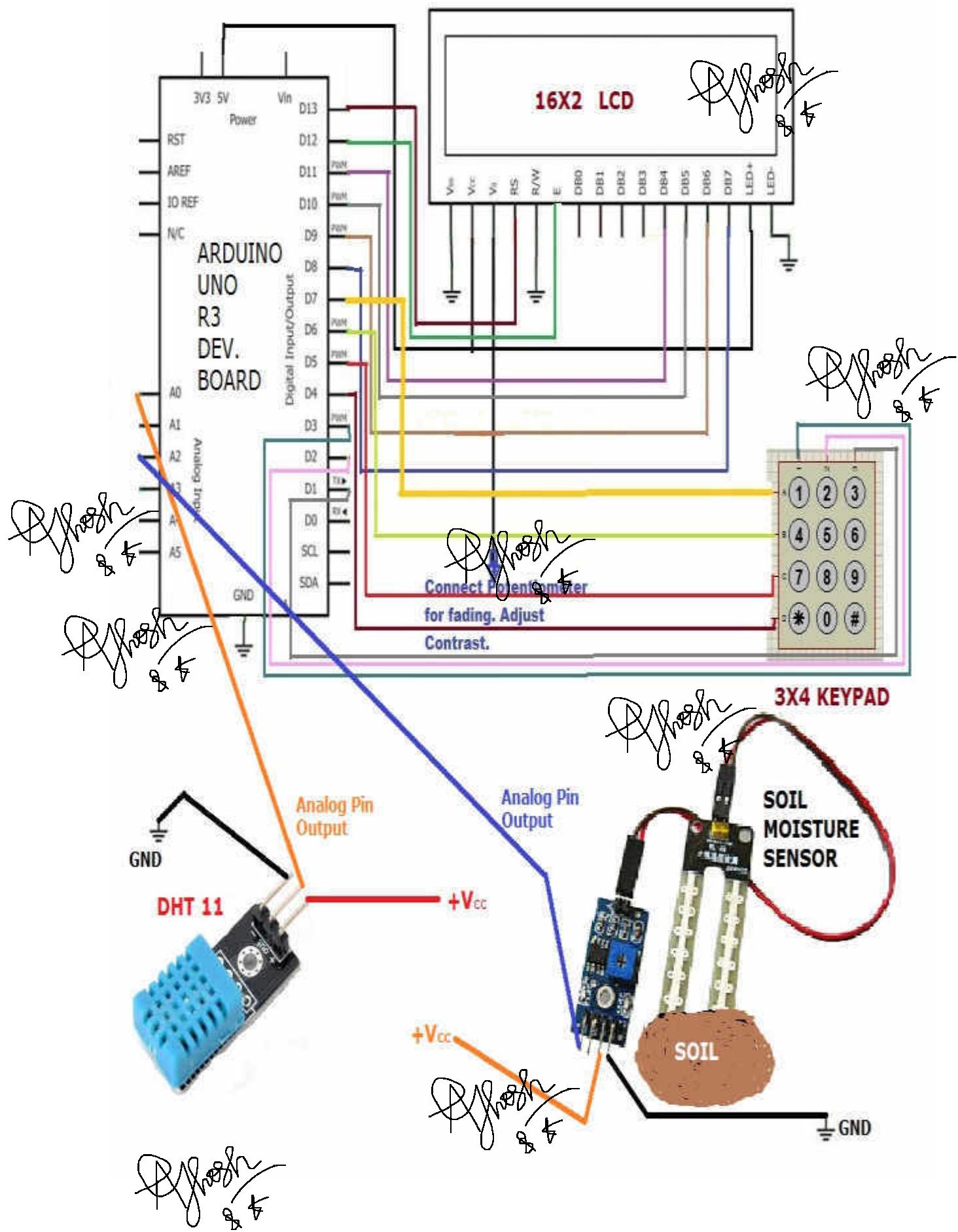


CIRCUIT:



LOOKUP TABLE

LOOKUP TABLE (STORED IN MICROCONTROLLER MEMORY)				
SOIL TYPES	CROPS	TEMPERATURE RANGE (°C)	HUMIDITY RANGE (%)	SOIL MOISTURE VALUES
ALLUVIAL	RICE	25-35	75-90	30
	JUTE	27-30	65-90	18-20
	PULSES	24-35	60-85	10-20
LOAMY	WHEAT	24-35	60-80	30
	STL	24-35	60-85	30
	VEGETABLES	19-35	60-85	12-24
BLACK	SUGARCANE	21-27	70-90	18-30
LATERICTIC	TEA	12-20	60-70	28-30

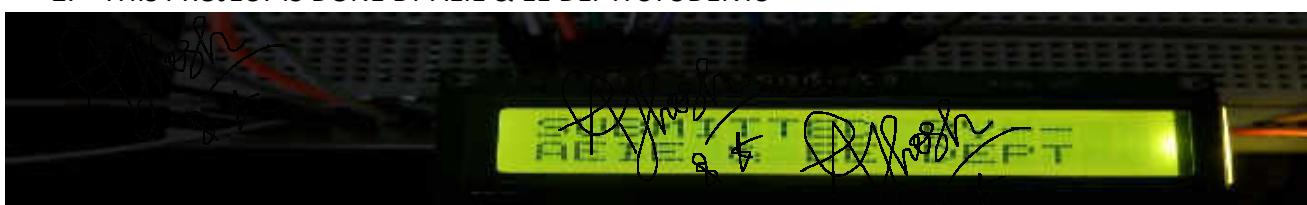
EXECUTION:

BY EXECUTING THE CODE WE CAN SEE THAT:

1. WELCOME TO THE SYSTEM



2. THIS PROJECT IS DONE BY AEIE & EE DEPT. STUDENTS



3. THIS PROJECT IS GUIDED BY



4. THEN GO TO THE MAIN FEATURE; THE NAMES OF FOUR SOILS ARE CHOSEN FROM KEYPAD



5. THEN THE SOIL MENU IS LOADING



6. ACCORDING TO THE LOCATION OF OUR COLLEGE, THE SOIL TYPE IS ALLUVIAL



7. SO FROM THE MENU, WE CLICK ON BUTTON '1' OF THE ALPHANUMATIC KEYPAD



8. THEN SHOWS THE CROPS WHICH ARE GENERALLY IRRIGATE IN THAT ALLUVIAL SOIL; THOSE ARE RICE, JUTE AND VARIOUS PULSES



9. THEREAFTER THE CONNECTED SENSORS OF THE SYSTEM SENSED AND SHOWS THE CURRENT CLIMATE CONDITION IN THE DISPLAY



10. WE LOAD A LOOKUP TABLE FOR THE VARIOUS CROPS FOR MENTIONED 4 TYPES OF SOILS. SO NOW WAIT FOR DESIRED OUTPUT TO COMPARE WITH THE CURRENT CLIMATE CONDITION VALUES WITH THE LOOKUP TABLES VALUE TO GET THE SUITABLE CROP TO IRRIGATE... AND GOT THE FINAL OUTPUT IN TERMS OF THE SUITABLE CROP IS



IF IT IS USED IN A SMALL NURSERY THEN BY WAITING OF 10SEC WE CAN CHECK ANOTHER SURFACE CROP FOR ANOTHER SOIL WITHOUT SWITCHING OFF THE PROTOTYPE DEVICE BY PRESSING THE KEY OF THE KEYBOARD



THIS IS DESIRED OUTPUT

THANK YOU