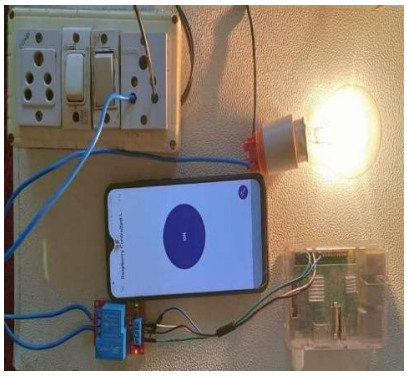
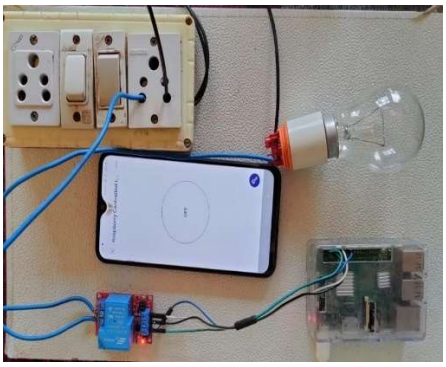
Results



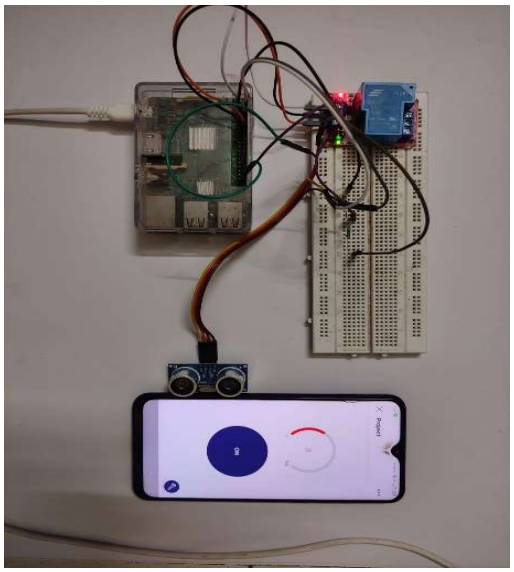
ON state on light



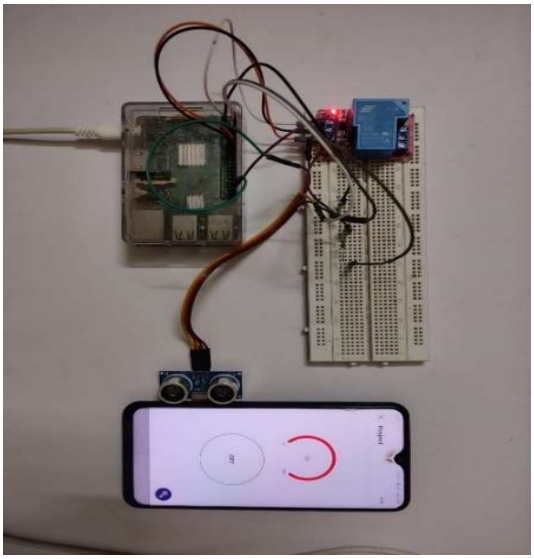
OFF state of light

Results of relay state:

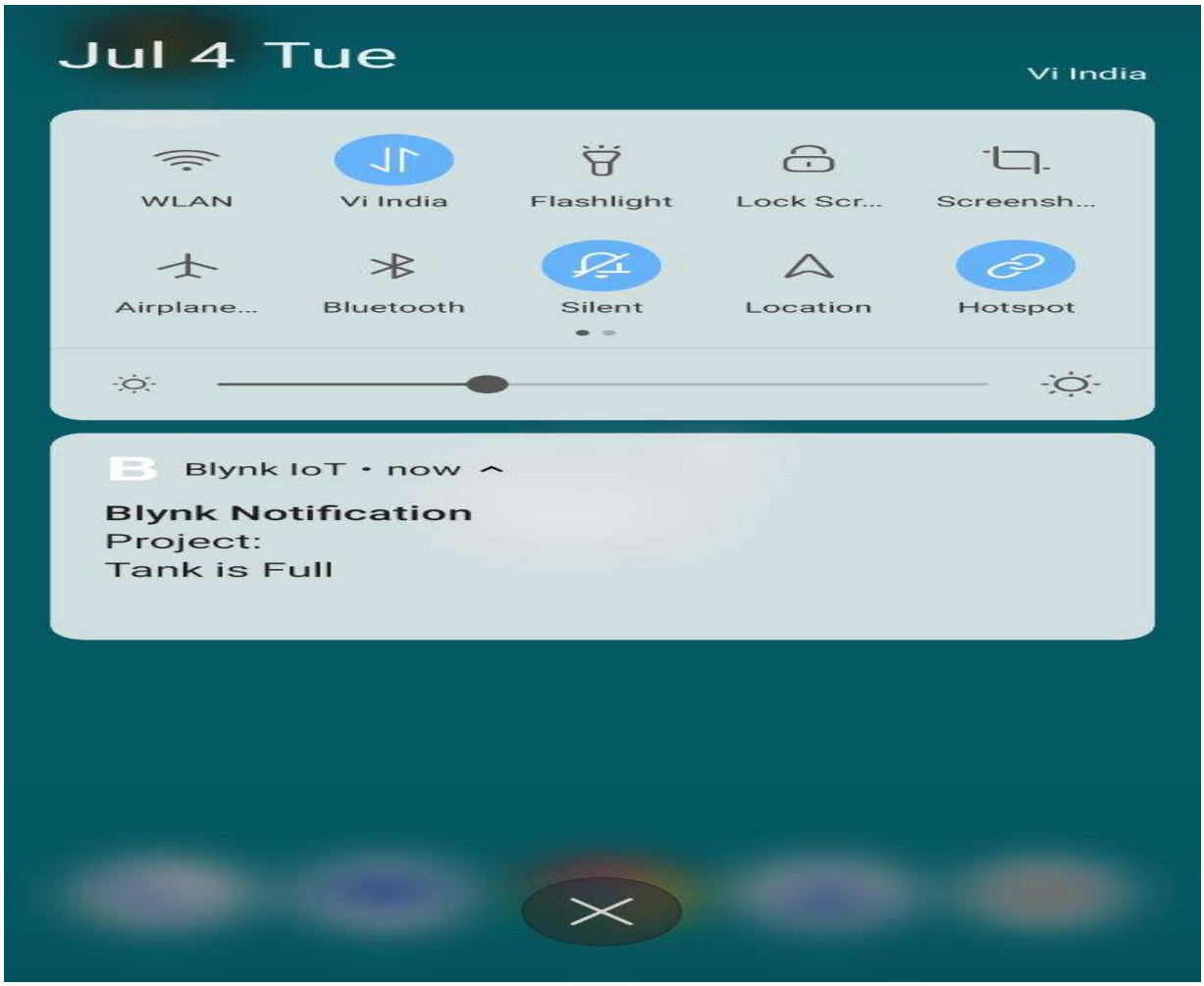
Sl no	Input	Water tank level	Relay State
1	ON	More than equal to 90%	OFF
2	ON	Less than 90%	ON
3	OFF	------	OFF



proposed model in ON State



proposed model in OFF State



Notification of blynk app

Advantages:

- It is applied for long distance communication.
- Complete control and monitoring of the water pump can be accomplished.
- It helps to achieve and maintain optimum usage and utilisation of water.
- Overall model can be controlled automatically and minimize human intervention.

Applications:

- By using IoT technology system can be managed through mobile phone using IoT Remote App.
- By using this system water pump can be switched ON and OFF through IoT Remote App.
- this system can be used to remotely control and monitor the lighting, temperature, and security systems of a home.
- Additionally, it can be used to control and monitor other appliances, such as the washing machine, refrigerator, and television.

Conclusion:

Water level monitoring using IoT technology is an innovative application of IoT developed to control water pump remotely over a cloud. components connected over IoT technology are monitored remotely using Android application “Blynk app”. The motor can be activated remotely using an Android application even if the set value is below the required level. If water level exceeds the set value, relay gets activated and isolates the water pump from supply. A prototype of overall model is successfully tested and can be controlled.

Future Scope

- This project can be integrated with smart home automation.
- The range of operation of system can be extended by using GSM module.
- It can also be used to monitor the environment, such as air quality, water quality, and weather conditions.
- it can be used to monitor and control industrial processes, such as manufacturing and logistics.