SYNOPSIS

Project Group No: 9

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Project Title: Smart energy meter using IOT by Blynk interface.

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ABSTARCT:

The basic idea of the project is to track and manage electricity consumption to save money and conserve electricity. Electricity board billing system is lagging in the area of interfacing with the user. To tackle this electricity billing can get automated by using IOT technologies to get several advantages compared to the conventional means. This project is a miniature version of the device which can help in increasing the transparency in units of electricity consumed and price of it through an android or web application interface called Blynk. This device enables access to real time information about the energy used according to the timestamp by using ESP-32 Wifi module allowing to better management of electricity usage. The data collection is automatic which doesn't need any meter readings. Thus the entire process of electricity bill generation becomes easier, efficient and smart.

Specific contribution:

• Interfaced Esp-32 WROOM with Arduino IDE

• Extended and developed the code for price calculation

Specific learning:

• Learnt about the libraries and the syntax in Arduino-IDE

• Got familiar with working of Esp-32 and its Ports

Challenges Faced:

• Lack of online resources to learn about Pricing factor for the electricity consumed

• Unfamiliarity to Arduino made it difficult to learn about Esp-32 and it's interface to IDE

Signature of the Student: **Signature of the Guide:**

Date: