Abstract:

Due to lack of rainfall in many countries like India it is difficult to get water resources for irrigation or other purposes, especially in the arid regions like deserts etc. The problem of water scarcity is also observed in many places of the world due to lack of rainfall. However, in highly humid areas such as places close to the sea, condensing the water vapour present in air we can places close to sea. Here, the paper presents the method to develop a water condensation system supported on thermoelectric cooler. The system consists of cooling elements, heat exchange unit and air circulation unit. This is the device that can convert atmospheric moisture directly into usable and even drinkable water and these devices is known as Atmospheric Water Generator. Here this device which uses the principle of latent heat which convert molecules of water vapour into water droplets. It has been introduced a bit before, though it is not very common in India and some other countries. It has a great application standing on such age of technology where we all are running behind renewable sources. So we are implementing an Multiple Peltier Module and IOT based rover for water extraction in the atmosphere.

Objectives:

- To help the water Scarcity issue in the nation we are presenting the water extraction technique by using Multiple Peltier Module to extract Water from the Atmosphere.