Smart Irrigation System

Aim:
To design and simulate a Smart Irrigation System using Cisco Packet Tracer that monitors soil moisture levels and automatically controls water flow to optimize water usage.

Problem Statement:
Traditional irrigation systems waste water due to manual operation and lack of soil condition monitoring, leading to inefficient water usage in agriculture.

Scope of Solution:
The Smart Irrigation System in Cisco Packet Tracer automates water supply by using IoT sensors to monitor soil moisture and trigger irrigation when required, ensuring optimal water utilization and reduced wastage.

Software Used:
Cisco Packet Tracer

Hardware Used:

Water Level Monitor
Lawn Sprinkler
Home gateway
Tablet