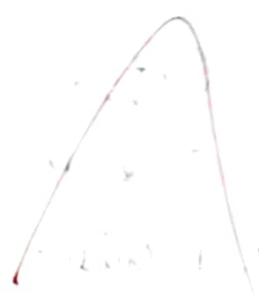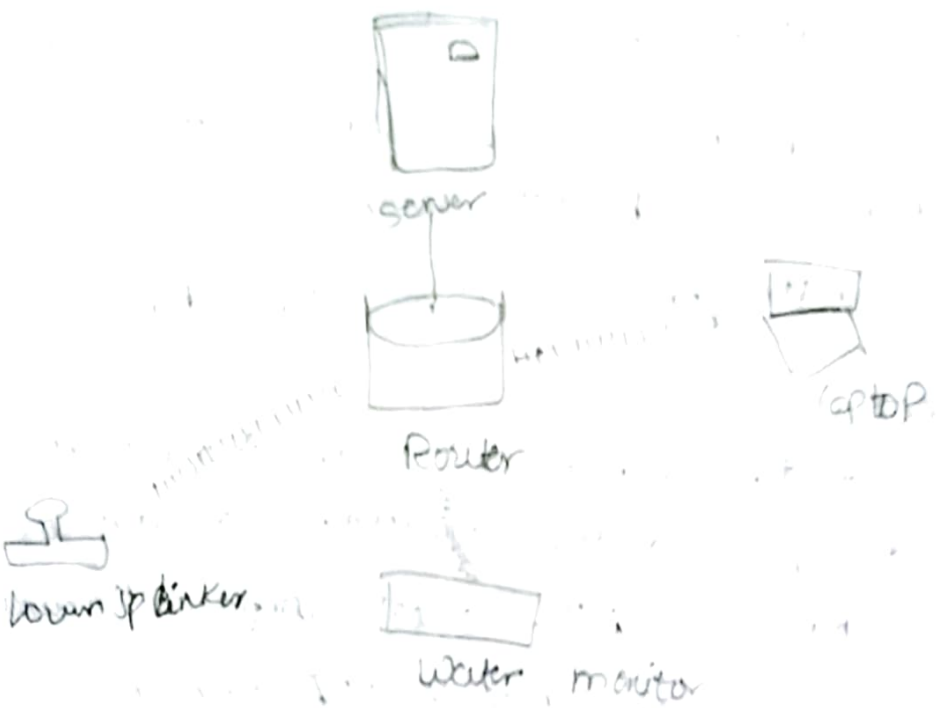# Experiment -20

Implementation of IoT Based Smart gateway

Aim: To implement IOT based Smart gateway using Cisco Packet tracer.

Software: Packet tracer, Hubs, Connectors

Procedure

Step 1: Create a new project in Cisco Packet tracer and drag a generic IoT device.

Step 2: Right Click → select Config / Attributes

Step 3: Config Tab → Devices IOT server

Step 4: Attributes tab add Temperature, humidite Soil moisture, Light intensity.

Step 5: Create Soil moisture & light Sensor

Step 6: Connect Sensors to IOT

Step 7: Configure the Sensors

Step 8: Create a water pump & light bulb.

Step 9: Connect actuators to IOT devices

Step 10: Configure the actuators

Step 11: Save the Config & run the Simulat

Step 12: Monitor the temperature, humidity & moisture and light intensity.

Step 13: Use the dashboard to Control water and light bulb.

server

Router

laptop

lown sprinker

water monitor

Result:

Emplementation of smart gardning is
comied out wing IOT sulcelfully.

Server-PT
Server0

Laptop-PT
Laptop0

2911
Router0

DLC100
Home Gateway0

0.00

Water Level Monitor

Lawn Sprinkler
IoT0

Water Level Monitor
IoT1