

IoTEDU Assignment 2 (50 Marks)



Deadline for Submission: 13th March 2021 (Answers will not be accepted after 13th March)

Send the answers in a PDF format with your Full Name

Passing score: 27.5 out of 50

MQTT

1. What are the different Messaging protocols used in IoT? Name any five and discuss briefly. (5 marks)
2. What are the various MQTT Brokers available open-source. Mention any five and discuss briefly. (10 marks)
3. Publish a message “Hello, I am {your name}” via the mosquitto broker, subscribe to the same message, and attach a **screenshot** of both the publish and subscribe terminal. (10 marks)

Linux (attach the screenshots wherever needed)

1. What is the command used for installing a software package in Raspberry Pi? Attach the **screenshot** of your installation. (5 marks)
2. Create the following commands. (10 marks) Attach **screenshots**.
 - i) 3 folders/directories in your home directory
 - ii) In each of the directory, create a text file and place it inside them.
3. What is the difference between the commands “ll” and “ls”? What are their functionalities? (5 marks)

Raspberry Pi

1. Name 5 different Operating Systems used for Raspberry Pi. Briefly describe them. (10 marks)

Bonus Question

Write the list of Linux commands and their **functionalities along with screenshots in your terminal** (any 10) → 10 Marks