JAVA Notes

B.Tech. CSE

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1   Introduction

- IOT refers nto a system of iterrelated, internet connected objects that are able to collect and transfer data over a wireless channel without humna intervention.

- IoT describes the network of physical objects - "things" - that are embedded with sensors, software, and other techonlogies.

- Insights aid in transforming business and lower costs with aid if reliable real time data through,

    - Reduction of wasted materials.
    - Streamlined Oprational and mechanical processes.
    - Expansion.

1.1   How it works

1. Sensors/DEvices collect data

2. Data Processing makes the data useful.

3. Connectivity sends the data to cloud.

4. UI delivers the intel to the user.

1.2   IOT Architecture

1. Things, sensors, controllers.

2. Gateways and data acquisition

3. Edge analytics.

4. Data centre/ cloud platform

1.3   Layers in IoT Architecture

- Data management layer

- Application layer

- Network layer

- Perception layer

1.4   Advantages of IoT

- Efficient resource utilization.