Group Presentation Assignment: Green Computing in Action

Task Overview

You will work in **groups of 2–3 students** to prepare and deliver a **5–10-minute presentation** on **one key principle of Green Computing**. Each group member must speak for an equal amount of time

Your goal is to **explain** how this principle is applied in the field of **technology and IT**, and how it contributes to sustainability and innovation.

Step 1: Choose Your Principle

Select **one** of the following principles to focus on:

1. Energy Efficiency
2. Hardware Optimization and Upgrading
3. Virtualization and Cloud Computing
4. Sustainable Design and Manufacturing
5. Responsible Disposal and Recycling
6. Paperless Practices and Digital Tools
7. User Awareness and Behavior Change

Step 2: Research and Prepare

Your group should gather information from **reliable, recent, and relevant sources** to build a clear, well-structured presentation. Include **examples, data, and visuals** wherever possible.

Here are some points to consider for your presentation. Not all parts are necessary to include, but this should help give you some ideas in terms of structure.

1. Definition and Explanation

- What does your chosen principle mean in the context of *green computing*?
- How does it help reduce energy use or environmental impact?

2. Technological Applications

- How is this principle used in **modern IT systems, software, or hardware**?
- What kinds of **companies, industries, or devices** apply it?
- Include at least **one real-world example** (for instance: Google's use of renewable energy for data centers, Apple's recycling program, or Microsoft's cloud sustainability strategy).

3. Environmental and Economic Impact

- What benefits does this principle bring to the environment? (e.g., energy savings, reduced emissions, less waste)
- How does it also benefit companies economically? (e.g., lower costs, improved reputation, innovation)

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4. Challenges and Limitations

- What problems or barriers exist when trying to apply this principle?
- Are there negative side effects (for example, cost of upgrades, limited recycling infrastructure, or high energy demands for cloud computing)?

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5. Future Outlook

- How might this area develop in the next 5–10 years?
- Are there any **new technologies or trends** that could make this principle more effective or widespread?

Evaluation Criteria (20 points total)

Groups will be evaluated on their **research and content**, **organization and clarity, use of language/vocabulary**, **use of visuals** and **presentation skills**.

Note: Groups that are above or under the timing limit may lose additional grades.