## In-Class Assignment: Input/Output Interface Presentation

**Objective:**

Work in pairs to research and present information on **networking, peripheral devices, and graphic devices** based on the concepts covered in class. You will apply their knowledge by identifying real-world applications, troubleshooting common issues, and comparing different technologies.

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## Part 1: Group Research Activity (30–40 minutes)

Each pair will be assigned one of the following topics and will research key aspects using class materials, internet sources, or their own devices. You will document your findings in a brief outline.

**Topics to Choose From:**

1. **Wired vs. Wireless Networks**
   - Compare Ethernet and Wi-Fi (speed, security, reliability).
   - Explain real-world uses (offices, gaming, remote work).
   - Identify common networking issues and troubleshooting steps.
2. **RJ-45 vs. RJ-11 Connectors**
   - Describe the differences and uses of each connector.
   - Identify where they are commonly used.
3. **USB Types & Speeds**
   - Compare USB 2.0, 3.0, 3.1, 3.2, and USB-C.
   - Find real-world examples (external drives, phones, gaming).
   - Explain which USB type is best for specific tasks.
4. **FireWire & SATA for Storage Devices**
   - Compare FireWire, SATA, and eSATA (speed, purpose, usage).
   - Identify which storage solutions use these connections.
   - Discuss the advantages and disadvantages of each.
5. **Display Connectors: VGA, DVI, HDMI, & DisplayPort**
   - Compare features, resolutions, and use cases of these connectors.
   - Explain why VGA is outdated and why HDMI is common.
   - Identify troubleshooting steps for connection issues.

**Part 2: Quick Group Presentation (10–15 minutes)**

Each Pair will prepare a **5-minute mini-presentation** on their topic using a **whiteboard, paper sketches, or digital slides (if available)**. They should:

- **Explain the key differences and use cases** of their assigned topic.
- **Demonstrate an example or troubleshooting tip** (if possible).
- **Answer class questions** about their topic.