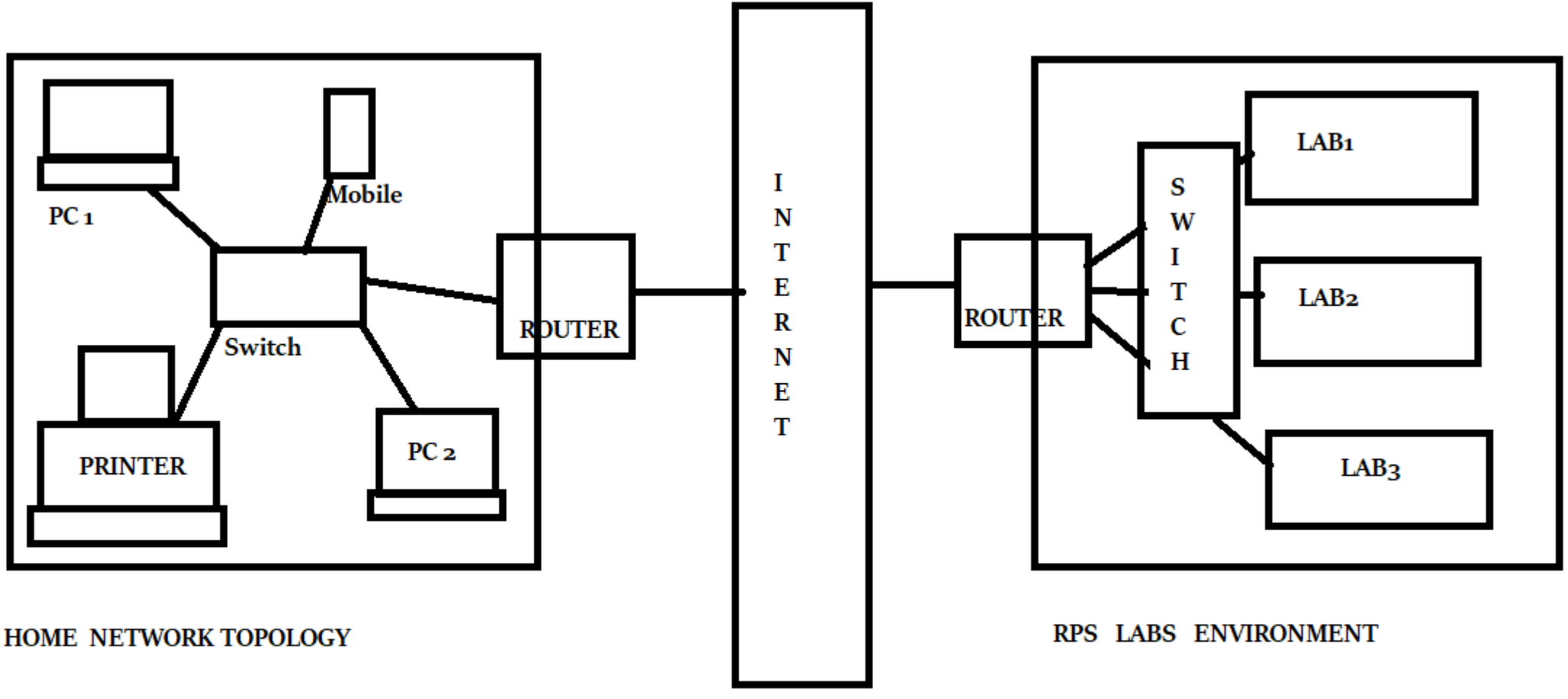
ASSIGNMENT 1



HOME NETWORK TOPOLOGY

RPS LABS ENVIRONMENT

ASSIGNMENT 2

Parallel computing is used in many real-world applications, including:

- Weather forecasting: Analyzing large amounts of data to predict changes in weather conditions over time
- Artificial intelligence: Processing large amounts of data to learn and improve, such as in image recognition and natural language processing
- Video post-production effects: 3D animation, color grading, and visual effects (VFX) require high computational power
- Databases and data mining: Parallel computing can help organize and manage large, complex datasets
- Real-time simulation of systems: Parallel computing can help simulate systems in real time
- Banking system: Parallel computing is used in banking for credit scoring, risk modeling, and fraud detection.

Networked systems are used in many real-world applications, including:

- Multiplayer online gaming: Connects players from around the world
- Remote work: Enables remote workers to access company data and systems from anywhere

Parallel computing is important in real-world applications because it can: Provide concurrency, Save time and money, Tackle larger problems on existing hardware, and Increase energy efficiency.

Networked systems are important in real-world applications because they can connect players from around the world and enable remote workers to access company data and systems from anywhere.