

## **Assignment - 2**

### Real-World Applications

#### **Parallel Computing:**

1. Weather Forecasting: Parallel computing is used to simulate complex weather patterns, enabling accurate predictions.
2. Genomics: Parallel computing helps analyze large genetic datasets, accelerating research and discovery.
3. Artificial Intelligence: Parallel computing powers AI models, enabling faster training and deployment.

#### **Networked Systems:**

1. Social Media: Networked systems enable social media platforms to connect users worldwide, facilitating communication and content sharing.
2. Online Banking: Networked systems secure financial transactions, enabling online banking and e-commerce.
3. Cloud Computing: Networked systems provide scalable, on-demand access to computing resources and storage.

#### **Importance:**

1. Connectivity: Global communication and collaboration.
2. Accessibility: Remote access to resources and services.
3. Efficiency: Streamlined processes and improved productivity.

Both technologies are vital for driving innovation, efficiency, and progress in various fields, transforming industries and daily life.