Module 1 – Overview of IT Industry

1. **What is a Program?**

Q. Explain in your own words what a program is and how it functions.

Ans:

1. What is Programming?

Q. What are the key steps involved in the programming process?

Ans:

1. Types of Programming Languages

Q. What are the main differences between high-level and low-level programming languages?

Ans:

1. World Wide Web & How Internet Works

Q. Describe the roles of the client and server in web communication.

Ans:

1. Network Layers on Client and Server

Q. Explain the function of the TCP/IP model and its layers.

Ans:

1. Client and Servers

Q. Explain Client Server Communication

Ans:

1. Types of Internet Connections

Q. How does broadband differ from fiber-optic internet?

Ans:

1. Protocols

Q. What are the differences between HTTP and HTTPS protocols?

Ans:

1. Application Security

Q. What is the role of encryption in securing applications?

Ans:

10. Software Applications and Its Types

Q. What is the difference between system software and application software?

Ans:

11. Software Architecture

Q. What is the significance of modularity in software architecture?

12. Layers in Software Architecture

Q. Why are layers important in software architecture?

13. Software Environments

Q. Explain the importance of a development environment in software production.

14. Source Code

Q. What is the difference between source code and machine code?

15. Github and Introductions

Q. Why is version control important in software development?

16. Student Account in Github

Q. What are the benefits of using Github for students?

17. Types of Software

Q. What are the differences between open-source and proprietary software?

18. GIT and GITHUB Training

Q. How does GIT improve collaboration in a software development team?