Module 2 – Fundamentals of World Wide Web

THEORY EXERCISE:

1. Difference between Web Designer and Web Developer

Web Designer

Web Developer

Focuses on the look and feel of a website (design, layout, colors).

Focuses on the functionality and coding of the website.

Uses tools like **Adobe XD**, **Figma**, **Photoshop**.

Uses programming languages like HTML, CSS, JavaScript, PHP, Python.

Creates UI/UX (user interface/user experience). Builds the structure and logic behind the website.

Example: Makes sure the website looks good on all screen sizes.

Example: Makes the contact form work and stores the data.

Designer = Artist

♣ □ Developer = Engineer

2. What is W3C?

W3C stands for World Wide Web Consortium.

- It is an **international organization** that develops **web standards**.
- Created by **Tim Berners-Lee** (the inventor of the web).
- Its goal is to make the **web accessible**, **secure**, **and usable** for everyone.
- Example: W3C defines how HTML, CSS, and other web technologies should work.

3. What is a Domain?

A **domain** is the **name** of a website that people type in the address bar.

- It is linked to the website's IP address.
- Example: www.amazon.com is a domain.
- Domains are **purchased from registrars** (like GoDaddy or Namecheap).

Parts of a domain:

- www Subdomain
- **example** Domain name
- .com Extension (TLD)

4. What is SEO?

SEO stands for **Search Engine Optimization**.

- It is the process of **improving a website** so it ranks higher on search engines like Google.
- Goal: **Increase visibility**, get more visitors.

★ Types of SEO:

- **On-page SEO** Content, keywords, titles, images
- Off-page SEO Backlinks, social sharing
- **Technical SEO** Website speed, mobile-friendliness, code quality

5. What is SDLC (Software Development Life Cycle)?

SDLC is the process of **developing software step by step**.

© Phases of SDLC:

- 1. **Requirement Gathering** What do users need?
- 2. **Planning** Time, cost, resources
- 3. **Design** Create architecture, database, UI
- 4. **Development** Write code
- 5. **Testing** Check for bugs and fix errors
- 6. **Deployment** Launch the software
- 7. **Maintenance** Update, fix issues after launch

It helps in building software **efficiently and systematically**.