What is Program

A set of instructions which we pass to the computer to do the particular task.

What is Programming

A set of instructions which we pass to computer to complete the task.

Types of Programming Language

1. Low level Language
2. Machine Language
3. Binary Language
4. Intermediate Language
5. High level Language
6. Java
7. Python
8. Ruby
9. PHP
10. Javascript

World Wide Web

A system of interconnections which can users can access through internet.

It can also be called as W3.

How Internet Works

It is a network which connects computers and devices around the world.

Types of Networks:

1. LAN (Local Area Network)
2. WAN (Wide Area Network)
3. Wireless Network
4. Broadband Network
5. Satellite Network
6. Fiber Optic Network

Network layers on client and servers

1. Physical Layer
2. Data Link Layer
3. The Network Layer
4. The transport Layer
5. The Session Layer
6. The Presentation Layer
7. The Application Layer

Client and Servers

Client requests services to servers which they respond to fulfil the request.

Types of Internet Connections

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Protocols

A protocol is a set of rules how data are transferred, sent, and receive to user.

Types of protocols:

1. TCP/IP
2. FTP – File Transferred Protocol

Application Security

It is a process of adding, developing the securities to computer to protects from Viruses and preventions.

Software Application and its Types

It performs the specific tasks like presentations, using application and web.

Types of Application Software

1. Word Processors
2. Web Browsers
3. Spreadsheet Programs.
4. Multimedia Software.

Software Architecture

It is a structure needed the reason about software system and the discipline of creating such systems.

Layers of Software Architecture

There are 4 Layers of Software Architecture

1. Presentation (UI)
2. Application
3. Domain
4. Infrastructure

Software Environment

It is a collection of hardware and software tools a user to build a system develop.

Source Code

It is a group of instructions which programmers writes using computer programming language.

Types of Software

There are 2 types of software

1. Application Software
2. System Software

Introduction Software

It is a set of instructions which user’s commands to computer to run the code.

Application Software

Any computer that is intended for end user use.

Examples:

1. Word Processors
2. Spreadsheet
3. Web Browsers
4. Emails
5. Games

Software Development Process

1. SDLC: Software Development life Cycle
2. Planning and Analysis
3. Designing the Product Architecture
4. Developing and Coding
5. Testing
6. Maintenance.

Software Requirement

Specifications of what software do, how it should behave, and what have to satisfy.

Software Analysis

A process in software development that involves understanding requirements, analysis them, design solution to meet those requirements.

Software Design

It ensures it fictional, maintainable, scalable, Data Flows, Architect and Components.

Software Testing

It examines every component of application to make sure they work.

Maintenance

The process of changing, modifying, updating software to keep up with customer needs.

Development

The process of designing, testing, maintaining software applications, etc.

Web Application

It allows the users to interact with a server to perform specific tasks without any need of installation.

Designing

Creating the visual look, layout, and flow of an application's interface.

Mobile Applications

Software programs designed to run applications on Mobiles and Tablets.

Example: Instagram, WhatsApp, Snapchat, Facebook, etc.

Data Flow Diagram (DFD)

It is a visual representation that illustrate how data movies through a system.

Symbols like Rectangle, Arrow, Parallelogram, Oval, Diamond.

Desktop Application

A software program designed to run on a computer, laptop or in desktop.

Example:

1. Microsoft Office
2. VLC Player
3. Adobe Photoshop, etc.

Flowchart

A diagram which visually represents the process of workflow using symbols like arrow, oval, parallelogram, rectangle, diamond.

It is been step by step decision making.