

Assignment 01

Refer to the above 'Lecture 01', 'Additional reading' and answer to the following questions. You may refer to the internet to find additional information.

Upload the answers as a word or pdf to the LMS. Type your name with initials on top of the document.

Questions:

1. Briefly explain the need for a programming language?
2. Compare and contrast the differences between the following.
 - a) Source Code vs. Machine Code
 - b) High-Level Language vs. Low-Level Language
 - c) Compiler vs. Interpreter
 - d) Structured Language vs. Object-Oriented Language
 - e) C vs. C++
 - f) C++ v. Java
 - g) Syntax error vs. Logical error
3. Write a short description of leading Software Development firms renowned in the globe and Sri Lanka (At least 5 from each category).

Your description must contain Name of the organization, description of the organization, type of products/services they offer, Owners details (Founder/CEO), Type of jobs available in the organization, etc.
4. Refer to the web sources and briefly explain the job roles of the following job titles.
 - a) Software Engineer
 - b) Software Architect
 - c) Business Analyst
 - d) Quality Assurance Engineer
 - e) Project manager
 - f) Software Support Engineer
5. Refer to Chapter 1 of the above reference e-book (one of them) and explain the following terms.
 - a) Purpose of using Variables in C Language
 - b) Purpose of Operators and types of operators