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Exercises 1.1 and 1.2

Exercise 1.1.1 Define the following terms:

A computer program is a set of instructions and data used to operate a computer to produce a specific result.

Programming is the act of writing programs using a programming language.

A programming language set of instructions used to build a program.

A high-level language is something like java - don't have to write a lot like you would with assembly.

A low-level language is a language like an Assembly language where you would have to write a lot more to do the same program. Assembly only works with the computer it's written on.

machine language is referred to as executable programs or executables. Consist of ones & zeros 110100 The instruction part is known as “opcode” and is usually the first part of each binary number.

assembly language is a substitution of “opcode” with meaningful word-like symbols such as ADD, SUB, MUL.

Procedure oriented language is like C++. C++ uses int instead of class. -no class

Object-oriented language is like Java, uses classes.

Source programs are programs written in a computer language (high or low)

A compiler translates high-level source code to a complete unit before any one statement is executed.

An assembler is a translator program which converts assembly language into machine language programs

Exercise 1.1.2: Describe the difference between:

High-level and low-level languages:

A high-level language is something like java. You don't have to write a lot of code like you would with an assembly language. Low-level, assembly language, only works with the computer it's written on.

Procedure-oriented language and object-oriented language:

Class is the object in object oriented. Procedure oriented language is like C++. C++ uses int instead of class.

Exercise 1.2.8: Assume that you are to create a plan for a Java program that simulates the selection of a state lottery: A screenshot of text

Description automatically generated

Exercise 1.2.9: Assume that you are to create a Java program that calculates the floor space of a rectangular room:

A screenshot of a cell phone

Description automatically generated