# Chapter Review Questions

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Chapter 1 and Chapter 2 Review Questions (10 points):

1. What is the name of the logical unit that receives information from outside the computer or use by the computer program?

The logical unit is called the Central Processing Unit (aka CPU) and is in charge of taking the instructions that are given from the IDE that converts it to binary in order to the CPU to read it and do the instruction given.

1. What is the process of instructing the computer to solve a problem called?

It is called programming.

1. What type of languages are most convenient to the programmer for writing programs quickly and easily?

High level programming can be understood by just reading it, which is helpful for humans to read and understand what is going on.

1. What is the only language that a computer can directly understand?

A low-level language allows the computer to directly understand as it is much simpler for the computer to know what to do.

1. What software application simulates a computer, but hides the underlying operating system and hardware from the Java programs that interact with it?

A virtual machine.

1. What is used inside a program source code to document a program and improve its readability?

Comments along side the source code allow to understand why that block of code is there and read it with clarity.

1. What type of statements are used to perform mathematical calculations?

Using arithmetic operators such as (\*), (/), (+), (-) and (=) allow us to perform math equations. We can also use (&) by giving us the remainder of a division.

1. What do we call a location in the computer’s memory that may contain different values at various times throughout the execution of a program?

We call the reference of that specific variable.

1. Write Java statements that will display the message "Enter a value: ", leaving the cursor on the same line.

System.out.print(“Enter a value: “);

By using print it will not create a new line after this statement if asking for an input after.

1. Assuming that x = 2 and y = 3, what does:

System.out.printf("Value of %d + %d is %d%n", x, y, (y + x));

display after being executed by the program?

**Output:**

Value of 2 + 3 is 5