

ADDIS ABABA UNIVERSITY

ADDIS ABABA INSTITUTE OF TECHNOLOGY

CENTER OF INFORMATION TECHNOLOGY AND SCIENTIFIC COMPUTING

**Assignment 1 JavaScript**

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1. Is JavaScript Interpreter Language in its entirety?

What is difference between Interpreter and compiler?

interpreter is a computer program that directly executes instructions written in a programming, without requiring them previously to have been compiled into a machine language program. It translates one Statement at a time.

A compiler is computer software that converts computer code written in one programming language (the source language, like JavaScript, … etc) into alternative programming language (the target language, like machine code (byte Code)).

“JavaScript used to be purely interpreted but that was many years ago. Nowadays, it is JIT(Just in Time)-compiled to native machine code in all major JavaScript implementations. JavaScript is *not* an interpreted language. I wish people would stop answering questions, saying that it is. In some cases, parts of a JavaScript program might be interpreted briefly, see below for explanation.”

Exactly when it’s compiled to machine code varies based on implementation. In the current V8 (used in Chrome and Node.js), it starts out using an interpreter since there is little reason to spend time compiling code that only runs once. However, if a function gets executed more than a couple of times, it’s immediately compiled into optimized native machine code.

For example: -

References

1.https://www.quora.com