

Title: Programming Language Converter Using Shift Reduce Parser Algorithm

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ABSTRACT

In this paper, the researchers present a new approach of converting a source-to-source code using the shift reduce parser algorithm focusing on Python to C. In order for the researchers to perform the conversion, they created a grammar symbol and designed three phases. It is capable of converting basic code statements and control structures such condition statements, loops and function definitions. However, since the knowledge of the system is still small and thus is limited to what functions it can use, it has still no capabilities for converting codes that are related to file and database handling. The version of Python it currently uses is version 3. This paper also discusses the testing results that was conducted among ten respondents.

Keywords: Programming Language, Converter, Shift Reduce Parser (SRP)