

The Pascal programming language was designed and is still used to this day to teach procedural imperative programming. However, there are no modern high quality integrated development environments (IDEs) that could be used by students to write in the Pascal programming language.

In this thesis we attempt to fix this problem by creating a Visual Studio 2015 extension which would integrate Free Pascal programming language into Visual Studio. This extension adds a Free Pascal project into Visual Studio, allows for Free Pascal source code to be compiled, ran and debugged. Additionally, the extension adds syntax highlighting and code completion for subset of the Free Pascal language into Visual Studio.