

Informatics Institute of Technology

In collaboration with

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# Tyrox- A Transformer Architecture based natural language programming interpreter to aid novice programmers

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## **Abstract**

One of the most prominent discussions in today's literature appears to be which of the major programming paradigms is the best learning strategy for novice programmers. It became one of the most pressing issues when research demonstrated that the foundation built at the entry-level is a game-changer in the existence of a programmer. The most difficult task in this method is the conveyance of key programming concepts with knowledge of their logic. Many computer instructors and researchers have invented a variety of programming languages and ways to assist new programmers and tackle this problem.

This thesis focuses on implementing the IDE plugin to assist, guide and support novice programmers to self-study and this also presents a discussion of the literature to uncover research gaps and missing links in existing beginner-level programming languages.

### **Subject Descriptors:**

- Introductory Programming
- Natural Language Processing

### **Keywords:**

Coding Assistant