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Java and the Development of Programming Skills: Assessing Students' Perceptions and Limitations

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Abstract: This study assessed the perceptions of Bachelor of Science in Information and Communications Technology (BSICT) students at Surigao del Norte State University (SNSU) regarding the role of basic Java programming in developing key programming skills. It focused on four core Java components—syntax, methods, classes, and file handling—and examined their relationship to the enhancement of students' communication, problem-solving, and critical thinking skills. Findings reveal that students perceive Java as a valuable tool for improving both technical proficiency and cognitive abilities. The study underscores the importance of foundational programming knowledge in shaping essential skills and recommends curriculum improvements to better align academic training with industry needs.

Keywords: Academic training, Curriculum improvement, Foundational programming knowledge, Industry needs

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