ABSTRAK

Penelitian ini bertujuan untuk mendeskripsikan kemampuan *Computational Thinking* siswa dalam menyelesaikan soal PISA dan mengetahui Kesulitan yang dialami siswa dalam menyelesaikan soal PISA dengan kemampuan *Computational Thinking* . Judul dalam penelitian ini ialah "Analisis kemampuan computational thinking siswa dalam menyelesaikan soal PISA di SMP Lhoksumawe ". Jenis penelitian ini adalah penelitian deskriptif dengan pendekatan kualitatif yang dilaksanakan di SMP Negeri Arun. Subjek penelitian ini ialah siswa SMP Negeri Arun sebanyak 3 orang. Pemilihan subjek penelitian ini berdasarkan pengambilan *purposive sampling*. Teknik pengambilan subjek penelitian ini berdasarkan siswa yang pernah mengikuti olimpiade di SMP Negeri Arun Tahun Ajaran 2022/2023. Data penelitian yang diperoleh terdiri dari jawaban hasil tes siswa dan hasil wawancara. Keterampilan *Computational Thinking* siswa dapat dilihat melalui indikator antara lain Dekomposisi, Pengenalan Pola, Berpikir Algoritma dan Abstraksi. Penelitian ini memperoleh hasil penelitian sebagai berikut : 1) Mendeskripsikan kemampuan *Computational Thinking* siswa dari semua indikator *Computational Thinking* yang mencakup Dekomposisi, Pengenalan Pola, Berpikir Algoritma dan Abstraksi. 2) Terdapat kesulitan siswa pada indikator Berpikir Algoritma dan Abstraksi dalam penyelesaian masalah. Langkah-langkah pemecahan masalah yang diterapkan siswa kurang runtut karena belum mampu melibatkan indikator algoritma sehingga tidak mampu menyelesaikan indikator abstraksi ketika menyelesaikan soal PISA.

Kata Kunci : *analisis kemampuan, Commputational thinking, PISA*

ABSTRACT

This research aims to describe students' Computational Thinking abilities in solving PISA questions and determine the difficulties experienced by students in solving PISA questions with Computational Thinking abilities. The title of this research is "Analysis of students' computational thinking abilities in solving PISA questions at Lhoksumawe Middle School". This type of research is descriptive research with a qualitative approach carried out at Arun State Middle School. The subjects of this research were 3 Arun State Middle School students. The selection of research subjects was based on purposive sampling. The technique for selecting research subjects is based on students who have taken part in the Olympics at Arun State Middle School for the 2022/2023 academic year. The research data obtained consisted of student test results and interview results. Students' Computational Thinking skills can be seen through indicators including Decomposition, Pattern Recognition, Algorithmic Thinking and Abstraction. This research obtained the following research results: 1) Describe students' Computational Thinking abilities from all Computational Thinking indicators which include Decomposition, Pattern Recognition, Algorithmic Thinking and Abstraction. 2) There are students' difficulties with the Algorithmic and Abstraction Thinking indicators in solving problems. The problem solving steps applied by students are less coherent because they are not able to involve algorithm indicators so they are unable to complete abstraction indicators when solving PISA questions.

Keywords: ability analysis, computational thinking, PISA