Progress Seminar	
Seminar Title	: Characterization of k-generalized Fibonacci numbers as concatenations and differences of repdigits
Speaker	: Monalisa Mohapatra (Rollno: 522ma1004)
Supervisor	: Prof. Gopal Krishna Panda
Venue	: Mathematics Department Seminar Room
Date and Time	: 06 Feb 2025 (11.15 am)
Abstract	: The k-Fibonacci sequence is a generalization of the classic Fibonacci sequence with some fixed integer k ≥ 2. This study focuses on identifying all k-Fibonacci numbers that can be represented as the concatenation of three repdigits and all the k-Fibonacci numbers that can be expressed as differences of two repdigits. The proof involves the application of Baker&rsquos theory of linear forms in logarithms of algebraic numbers and the Baker-Davenport reduction procedure.

Keywords: k&minusGeneralized Fibonacci numbers, repdigits, linear forms in logarithms, Baker-Davenport reduction method