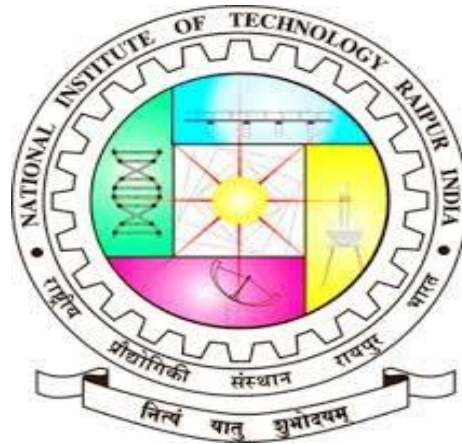# NATIONAL INSTITUTE OF TECHNOLOGY, RAIPUR

PROJECT REPORT

Title: **Scientific Calculator**

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Semester: 3rd Sem

Branch: **Computer Science & Engineering**

Under the supervision of : **Dr. Naresh Nagwani**

Department: Computer Science And Engineering

Introduction

A simple Scientific Calculator GUI in which we can perform basic mathematic operation, some trigonometric functions ,calculate powers ,logarithms etc.

Pre-Requisites

1. Java Basics (OOPs)
   - Basic Syntax, Class, Methods, Constructor, etc.
2. Reading & Writing
3. Swing GUI

About Project

1. This project is made using SWING & AWT in JAVA.
2. I've used JButtons ,JTextFields ,JLabels ,JToggleButton.
3. I've implemented it in GridBagLayout.
   It consists of :-
   GridBagConstraints ->gridx,gridy,gridheight,gridwidth.
   Insets-> which provides padding to elements.

Scope of Improvements

- The application doesn't take complex inputs.
    - It only takes single input a unary/binary operator
    - And a secondary input only.
    - We can improve it by implementing stack.

GUI