PROJECT REPORT

Scientific Calculator Project

Author: Milind Mahesh Gavade
Creation Date: 03/04/2022
Version: 1.0

INTRODUCTION

Purpose of plan

Scientific calculators are used widely in situations that require quick access to certain mathematical functions, especially those that were once looked up in mathematical tables, such as trigonometric functions or logarithms.

This project prototypes those functions and helps in complex mathematical operations of the input variables.

The Project Plan defines the following:

1. Project purpose
2. Project purpose plan
3. Project Goals
4. Project objectives
5. Scope of the project
6. Accessibility of project

Purpose of plan

The purpose is to enable user to perform complex mathematical operations with the help of the project By prototyping the complex functions.

Phase I:

Planning the modes of operations and functions to be included in the project.

Phase II:

Install Compiler tool and Create prototype functions using multifile and makefile concepts.

Phase III

For Software Testing, Create a Unit testing file using Unity.

Phase IV:

Conduct Prototype Testing using produced testing code

Phase V:

Conduct Project and produce required output

GOALS AND OBJECTIVES

Project Goals and Objectives

The project goals and objectives for this project will focus on implementing Project Prototype that:

1. Improves accuracy of the answer than simple calculator.
2. Performs complex operations within a small fraction of time.
3. Enhances the ability and effectiveness of prototype to perform their operations.
4. Facilitates coordination with user .
5. Makes user interaction easier to add data or to get the output in case of complex operations.
6. Facilitates the addition of new required functions as per the user's need.

SCOPE

The extent of the area or subject matter that something deals with or to which it is relevant.

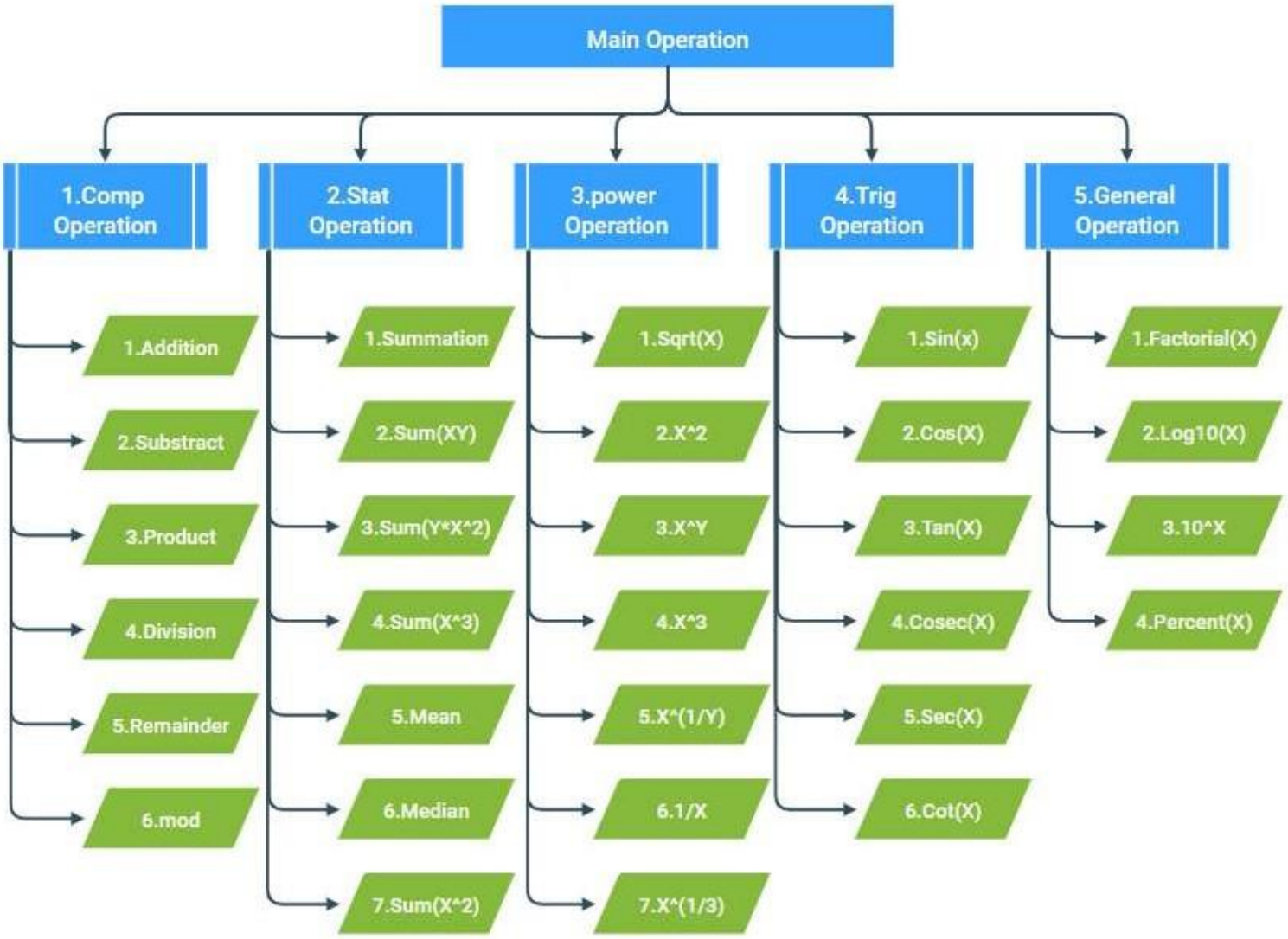
Scope in application fields

- Science
- Technology
- accounting
- marketing
- education
- finances

Accessibility Includes

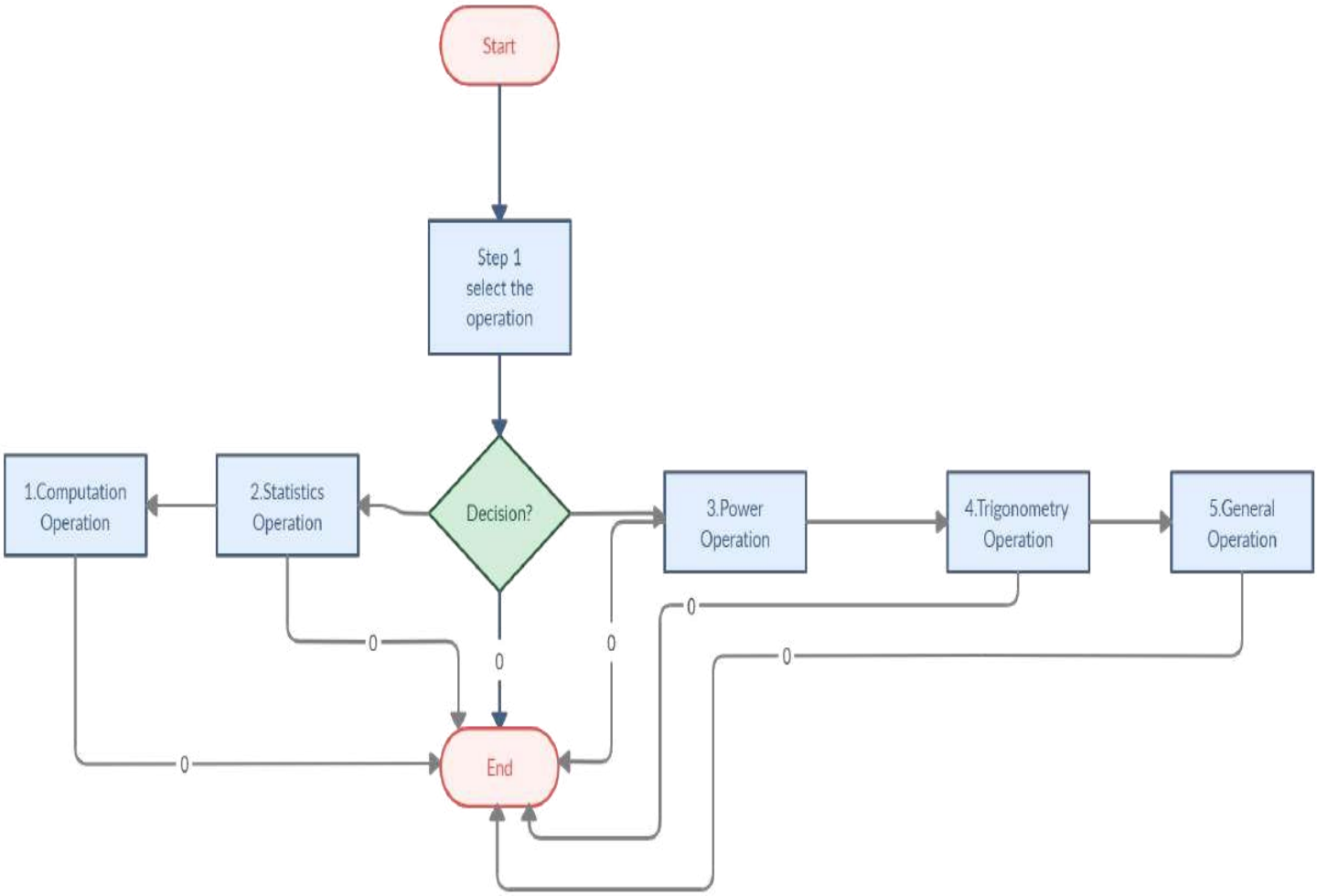
- The quality of being able to reach or enter.
- The quality of being easy to obtain or use.
- The quality of being easily understood.

Structural Diagram

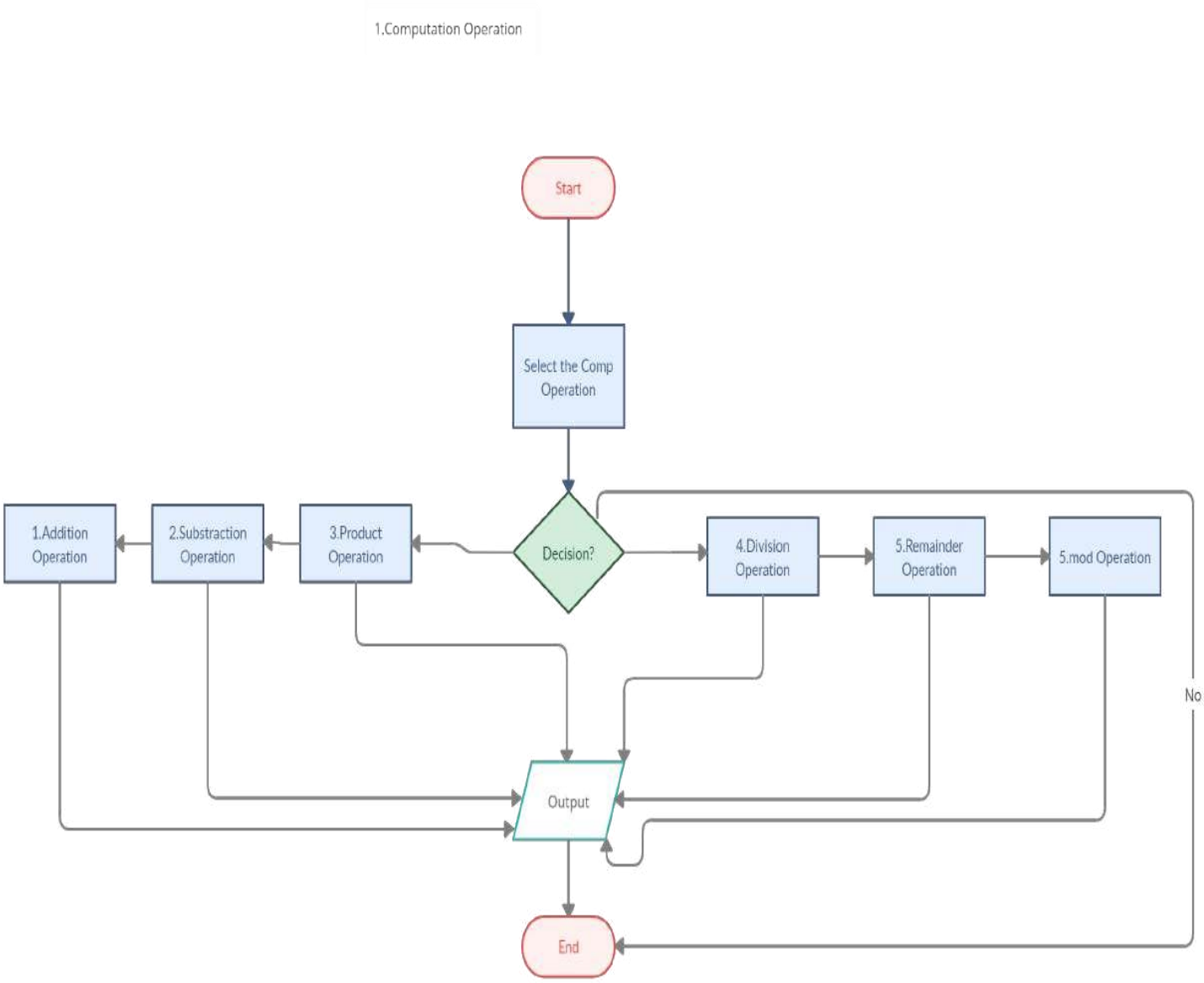


Flowcharts

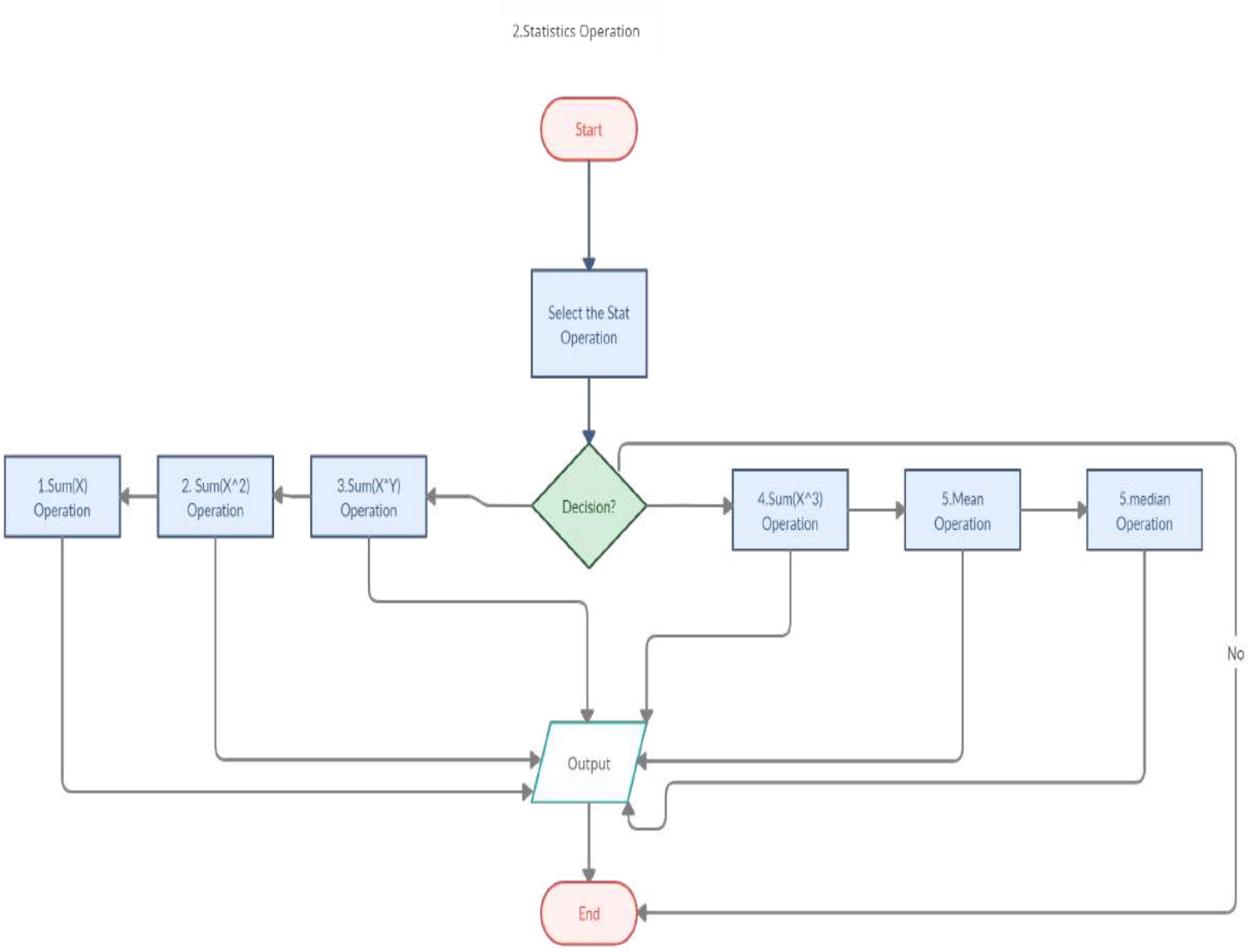
A. Main Operation Flowchart



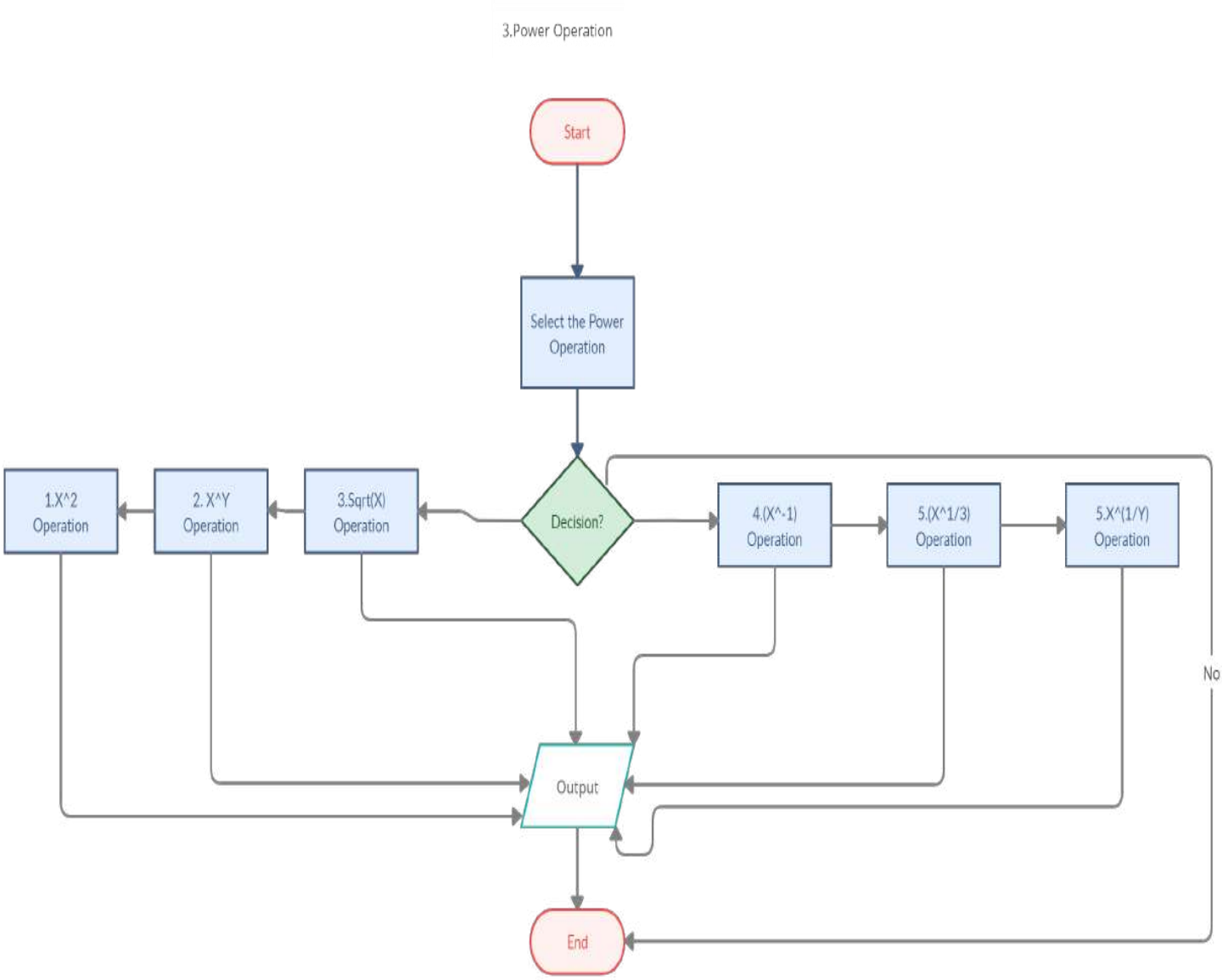
B.Computation Operation



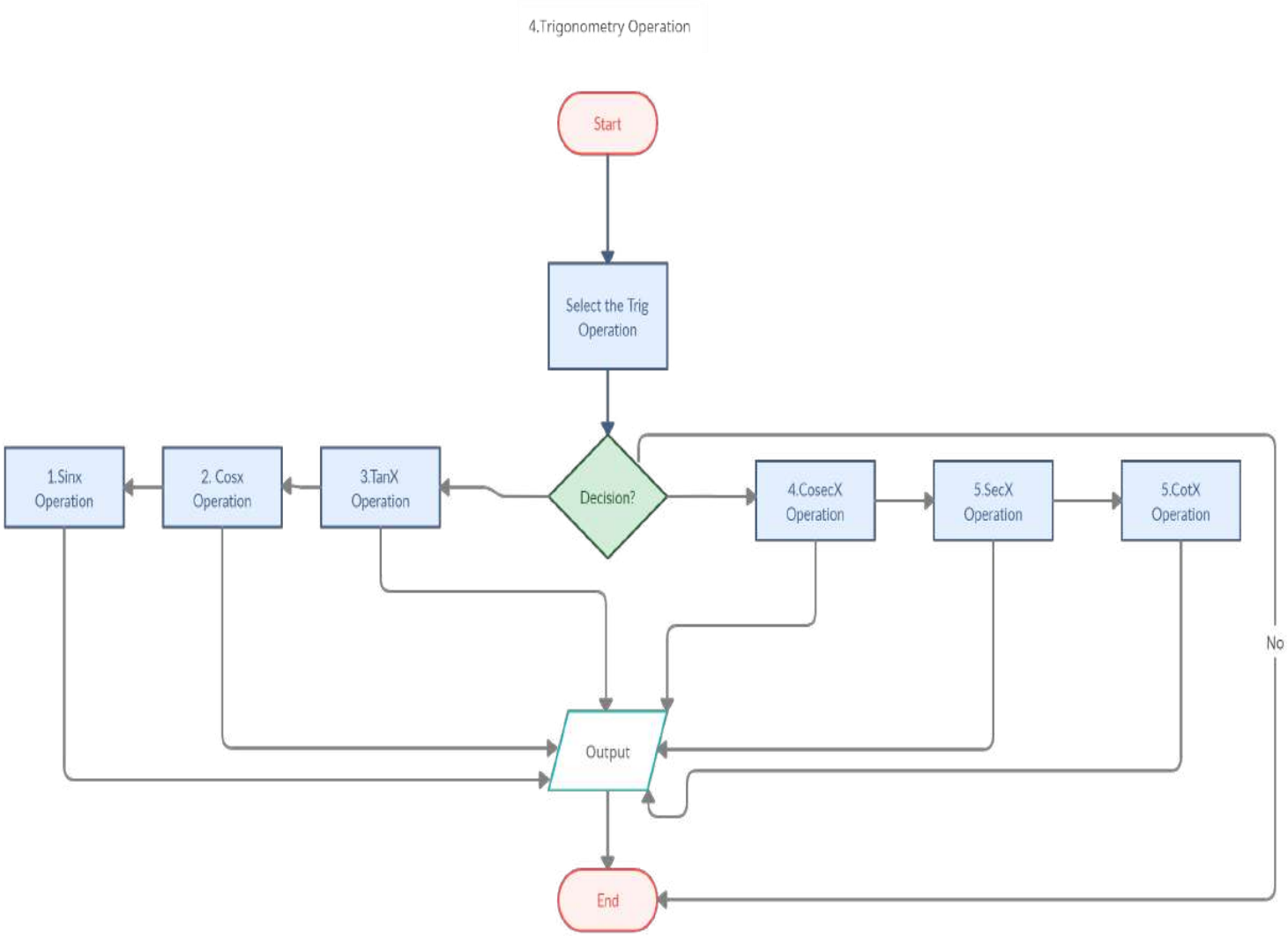
C.Statistics Operation



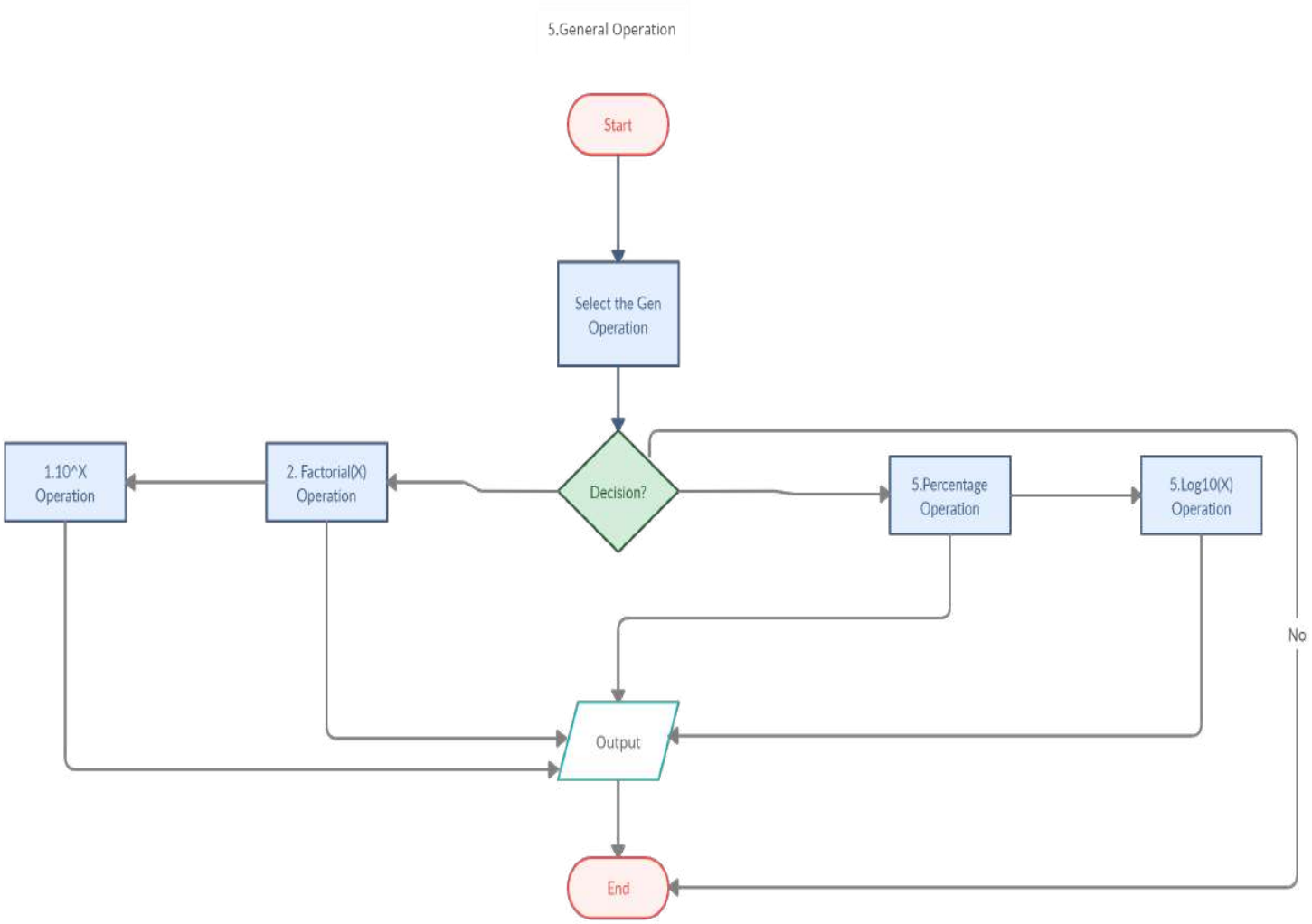
D. Power operation



E. Trigonometry Operation



F. General Operation



THANK YOU !