**NAME: ASAOLU DAVID OLAOLUWA**

**PROJECT TITLE: A COMBINED CALCULATOR**

**PROJECT AIM:**

* To perform simple arithmetic operations; e.g Subtraction, Addition, Multiplication and Division.
* To find the factorial of a given number; e.g 3! = 3 x 2 x 1 = 6.
* To find the square root of any given number; e.g 36 = 6
* To show the percentage of error made when measuring an object.
* To help students solve Quadratic Equations in seconds and also to prove that their answers are wrong or right.
* To solve Simultaneous Equations where two variables are unknown.
* To help loan takers and loan givers know the interest, rate, time, amount and even the principal.
* To solve the Area and Perimeter of various Plane Shapes; e.g:- Circle, Square, Rectangle and Triangle.

**ALGORITHM:**

* The program welcomes the **User** to Asaolu David’s Workspace and asks for the user’s name.
* The program shows various mathematical operations and asks the **User** to select the type of operation he/she wants to perform
* The program confirms the task the **User** selected by printing it out for the user.
* After confirming, the program then asks the **User** for the number or numbers he/she wants to use to performed the selected task.
* The program then runs the operation selected by the **User** and print out the result.

**CHALLENGES:**

There were no challenges in carrying out this project. The project was based on all we’ve been taught.

**FUTURE IMPROVEMENTS:**

* The program will be able to solve a simultaneous equation where we have three unknowns (Variables; e.g x,y,z)
* The program will be able to solve the logarithm and anti-logarithm of numbers.
* The program will be able to solve trigonometric ratios; e.g cosine, sine, tan, etc of various degree of numbers.
* The program will be able to solve for the volume, surface area, etc of various shapes like Cylinder, Cone, etc.
* The program will be able to serve as an Exchange Rate Converter.
* The program will able to store the **User’s** information by asking for the User’s name and password to sign in, so any time the User uses the calculator it shows his history or continues from **User** stopped calculating.

***END OF PRESENTATION.***

***THANK YOU FOR YOUR TIME…***