

Deliverable: Week-9 study hall -1(E15)

G. Jawahar | 170004 | ADC
25-09-18

List of Requirements for Project-1:

program-4

1. Enhance the square root calculator with U Number Library.
2. There are 5 buttons to perform operations (Add, Multiply, subtract, divide and square root).
3. There are two text fields to take input for the operations and for square root the second text field is ignored.
4. The should be displayed with more significance in the result text field.
5. Error messages should be displayed in red colour.

Program-7

1. Enhance the U Number calculator with error term and units.
2. Add the error term text field to first operand and second operand.
3. Add the unit's selection drop doem list to first operand and second operand.
4. The error term and the units should be displayed in the result text field.
5. The selected operation should be displayed before the result text filed as a label.
6. Error messages should be enhanced according to the input.

Lynn Robert Carter

Inexact Units Calculator

Units

First operand 123.45 ± 0.05 m

Second operand ±

+ - * / √

Square Root 11.111 ± 3E-03 √m

Test cases:

Deliverable: Week-9 study hall -1(E15)

G. Jawahar | 170004 | ADC
25-09-18

S.no	Test case
1.	The two input text fields should accept the input for the user.
2.	The two input text fields for error term should accept the input for the calculating the error term.
3.	The Unit drop down list should contain all the units in the English unit or metric form.
4.	All the buttons (+, -, *, /, $\sqrt{\quad}$) should perform their operations and should return the correct result without error.
5.	The label result should change after performing the operation and should the name of the specific operation have performed.
6.	Unit conversion can be done after the result of the operation is displayed.
7.	The calculator should access the U Number library for displaying more significant output.
8.	Error messages should be displayed when a wrong input is entered in the text field.
