

CPEG 222 – Project 2 Demo Grading

Laptop Calculator

1. Display: 20 pts

10 point deduction for each item not satisfied. Max deduction = 20 points

- No flickering of display
- No interruption of display while entering numbers or operands
- Bright enough to see easily

2. Keypad operation: 40 pts

10 point deduction for each item not satisfied. Max deduction = 40 points

- Single key press produces one and only one input
- Holding key down for 2 seconds or longer produces one and only one input.
- Fast key tap reliably produces correct input.
- Fast entry of 4 numbers works perfectly.
- Pressing two or more row keys produces no input.
- Pressing two or more column keys produces no input
- Pressing delete key erases last input

3. Operation: 20 pts

10 point deduction for each item not satisfied. Max deduction = 20 points

- Display numbers as entered in correct order
- Delete previously entered digit
- Executes addition and subtraction correctly (including negative results). **Note:** the processing of negative operands is not required.
- Display error on overrun
- Suppress display of leading zeros or other spurious numbers

4. Customer Satisfaction: 20 pts

Your customer (the TA) will award a maximum of 20 points that reflects his/her satisfaction with your project. A 10 point deduction for each item below will be assessed. Max deduction = 20 points

- Messy wiring
- Keypad keys not clearly labeled
- Quirky operation
- Unfamiliarity with any aspect of your project
- Late for your demo
- Poorly presented demo

Other

Your project notebook must be turned in at the time of your demonstration. No documentation will be accepted after the demo.

The total project grade is 25% design notebook and 75% demonstration.