Competition

1- Duration: 3 hr.

2- Project details:

-My name is Bishoy, I don't have enough money to buy calculator so I want to use Arduino to make it.

-I want to turn on it using a switch.**(*15pt)**
 Hint: you will use *noDisplay()* and *display()* functions.

-To make the calculator beautiful, I want display a welcome screen for two seconds "***CALCULATOR***" then four choices will appear on LCD as follows:
1-ADD   2-SUB
3-MUL   3-DIV   **(*10pt)**

-I faced a problem that I can't enter the number of operation as I have no keypad, please help me.   **(*25pt)**

-After that LCD will display in the first row n1: and in the second row n2:   **(*10pt)**

- You must enter the two numbers in the same way you used to enter the number of operation.   **(*10pt)**
Hint: I may use fractions

-LCD will display "The result is: " in the first row then the value in the second one for two seconds and repeat again.**(*5pt)**

- I to hear an alarm for one second in case I entered wrong operations or wrong numbers by mistake.**(*25pt)**

3- Bonus

- I want to use my calculator alone so I want to enter a password on the LCD, if it is correct, the welcome screen will appear. **(*50pt)**
Hint: I don't want anyone to see my password on LCD.

- In case of true password, a green one will turn on for two second with the welcome screen, in case of wrong password, a red one will turn on for two second with a message on LCD "INCORRECT PASS".**(*20pt)**