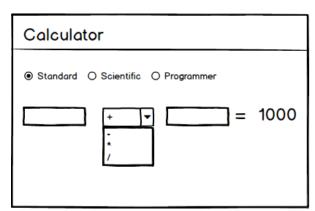
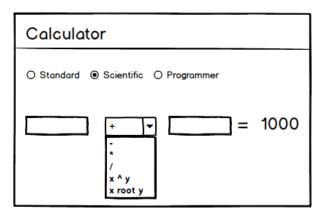
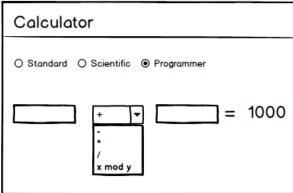
FED home assignment

Implement a javascript calculator as specified below:

- The calculator has 3 modes
 - Standard Basic arithmetic operations: "+", "-", "*", "/"
 - Scientific Basic arithmetic operations, and also: " x^y " (e.g. $2^3 = 8$), "x root $y(x\sqrt{y})$ " (e.g. $3\sqrt{8} = 2$)
 - Programmer Basic operations, and also: "x mod y" (e.g 2 mod 2 = 0, 5 mod 3 = 2)







• The calculator should look as close as the possible to the following screenshot:

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- The calculator should be placed in the center of the screen.
- The calculation result should be changed in the following cases:
 - Selecting a different operation.
 - Changing any of the inputs.
- Changing mode should clear selected operation and inputs values.

General guidelines:

- Write modular and reusable javascript. Follow MVC or MVVM or alike design patterns.
- Use only native JS or jQuery (other libraries/frameworks are not allowed).
- You may use any front-end layout framework you like (e.g. bootstrap, foundation).
- Use javascript best practices.
- Write unit test to your code (no need to run it, just create the test class).
- Write the code as if you are writing production code.
- If anything in the question is unclear, make assumptions, write them down as comments in the code and continue.
- At the end of 2 hours (or earlier), please email back your code.
- If you would like to dedicate up to 1 additional hour, you are welcome to do so and send your revised code.