

# ConsumerAffairs Practical Test

In this task, we want to test your skills in JS, CSS, HTML.

Please create a Mortgage Calculator.

Designs:

<https://www.figma.com/file/U4fYN0WD9zjaa6zqvhG5dq/Mortgage-Calculator?node-id=7%3A11401>

Fonts:

- [graphik](#)
- [publico\\_banner](#)

## Acceptance criteria

1. The calculator should match the design
2. The page should be responsive
3. Use HTML, JS (ES6 version) and SCSS
4. Should work in Chrome
5. Do not use any frameworks (CSS / Javascript)
6. Implement basic error handling as shown in the designs.
7. Submit the code to a private repository on Github and share it with:
  - a. <https://github.com/niqui>

## Bonus

1. Transpile JS for compatibility with other browsers (Safari/iOS)
2. Use of the [Airbnb style guide](#)
3. Unit tests for critical functions
4. Use [JSDocs 3](#) pattern for comments
5. Write a list of bugs or known issues for your implementation if needed
6. README file with instructions

## Deliverables

1. All source files (ES6 and SCSS)
2. HTML, JS and CSS files (unminified)

## Formulas

### Principle & Interest:

$$((\text{interestRate} / 100) / 12) * \text{loanAmount} / (1 - \text{Math.pow}((1 + ((\text{interestRate} / 100) / 12)), -\text{yearsOfMortgage} * 12))$$

### Tax

$$\text{annualTax} / 12$$

### Insurance

$$\text{annualInsurance} / 12$$

### Monthly payment

$$\text{principleAndInterests} + \text{Tax} + \text{Insurance}$$