# Assignment 5 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Your target for this assignment is to create Georgia Power Bill calculator that lets the user enters the monthly usage , and then calculate the monthly power bill.
2. Here are grading rubrics/specifications for BMI calculator.

* Name your file powerbill.html
* In the assignment section of your index.html document, create a link which links to this document “powerbill.html”.
* Create the interface similar to the following screenshot.

A screenshot of a calculator

Description automatically generated

* JavaScript function that read inputs and calculate the monthly bill amount.
  + Read inputs --- Monthly Usage, Days for the bill, inside city or not, Summer or Winter, Taxrate
  + Convert input(Monthly Usage/Days/Tax) to float type.
  + Follow the following steps to perform the calculations.
    - Base Charge: **46.03¢/day**
    - Tier 1,2,3 Charge:

**Summer Rate Schedule**

Tier Usage Cost per kWh

1st tier up to 650kWh $ 0.066678

2nd tier next 350kWh $ 0.110748

3rd tier over 1000kWh $ 0.114625

**Winter Rate Schedule**

Tier Usage Cost per kWh

1st tier up to 650kWh $ 0.062404

2nd tier next 350kWh $ 0.062404

3rd tier over 1000kWh $ 0.062404

* Base Revenue – Base Bill Sub total = base charge + tie1 + tie2 + tie 3
* Fuel Cost Rider:

June - Sept. Oct. - May

Cost Per kWh $ 0.045876 $ 0.042859

* Demand Side Management Residential Rider

% of Base Revenue 1.5989%

* Nuclear Construction Cost Recovery Rider

% of Base Revenue 4.1562%

* Environmental Compliance Cost Recovery Rider

% of Base Revenue 16.2813%

* Total Revenue = Base Revenue + Fuel Cost + Demand Side Management + Nuclear Cost Recovery+ Environmental Compliance
* Franchise Fee

Inside City Limits Outside City Limits

% of Total Revenue 3.0674% 1.1839%

* Total (before tax) = Total Revenue + Franchise Fee
  + Display all the required values. Keep two decimal places.
  + Open a new page [https://www.georgiapower.com/residential/save-money-and-energy/products-programs.html](http://https:/www.georgiapower.com/residential/save-money-and-energy/products-programs.html) if the total bill is over $500.
* Before you submit your file, be sure to check this checklist.
* To submit:
  + Upload your files to GitHub.
  + Please turn in this page with items checked to instructor on due date.