LAB #3: WEB APPLICATION WITH GENIE

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In this lab, we will create a basic web application using **Genie** framework in Julia. The application will allow us to control the behaviour of a sine wave, given some adjustble parameters. we are required to carry out this lab using the REPL .



Figure 1: Julia REPL

Exo 1: codes of Sine Wave Control

```
end
@page("/", "app.jl.html")
```

```
<header class="st-header q-pa-sm">
   <hl class="st-header__title text-h3" Sinewave
Dashboard </h1>
</header>
<div class="row">
   <div class="st-col col-12 col-sm st-module">
       <b># Samples</b>
       <q-slider v-model="N"
   :min="10" :max="1000"
   :step="10" :label="true">
 </q-slider>
   </div>
   <div class="st-col col-12 col-sm st-module">
       <b>Amplitude</b>
       <q-slider v-model="amp"
   :min="0" :max="3"
   :step=".5" :label="true">
 </q-slider>
   </div>
   <div class="st-col col-12 col-sm st-module">
       <b>Frequency</b>
 <q-slider v-model="freq"
   :min="0" :max="10"
   :step="1" :label="true">
 </a-slider>
   <div class="st-col col-12 col-sm st-module">
       <b>phase</b>
 <q-slider v-model="pi"
   :min="-3.14" :max="3.14"
   :step=".314" :label="true">
 </q-slider>
   </div>
   <div class="st-col col-12 col-sm st-module">
       <b>offset</b>
```

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julia --project

```
julia> using GenieFramework
julia> Genie.loadapp() # Load app
julia> up() # Start server
```

We can now open the browser and navigate to the link localhost:8000. We will get the graphical interface as in Figure 2.

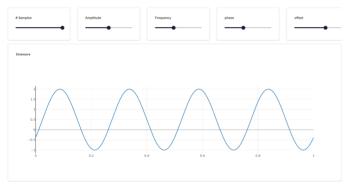


Figure 2: Genie -> Sine Wave

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