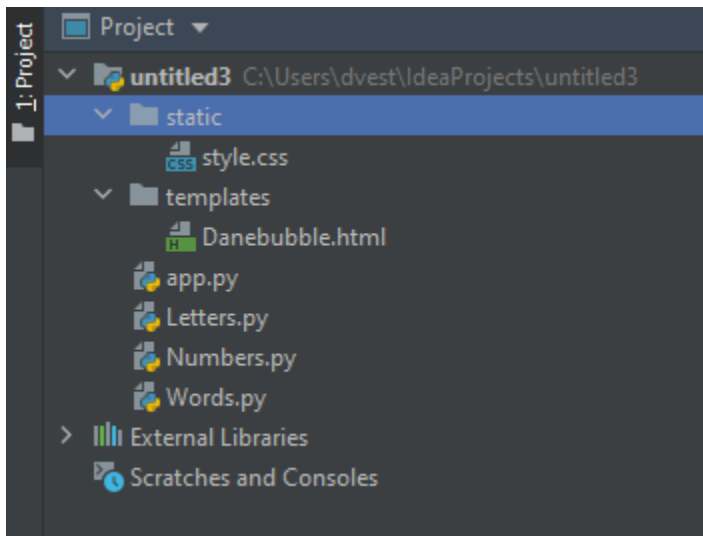


## File Structure:



## Letters.py

```
def split(word):  
    return list(word)  
  
def switch(list):  
    change_count = 0  
    for i in range(len(list) - 1):  
        if list[i] > list[i + 1]:  
            saved_char = list[i]  
            list[i] = list[i + 1]  
            list[i + 1] = saved_char  
            change_count += 1  
    return list, change_count  
  
def alphabetize(word):  
    list = (split(word.lower()))  
    change_count = 1  
    while change_count > 0:  
        list, change_count = switch(list)  
    return (list)
```

## Numbers.py

```
def split(word):  
    return word.split(",")  
  
def switch(list):  
    change_count = 0  
    for i in range(len(list) - 1):  
        if int(list[i]) > int(list[i + 1]):  
            saved_char = list[i]  
            list[i] = list[i + 1]  
            list[i + 1] = saved_char  
            change_count += 1  
    return list, change_count  
  
def order(word):  
    list = (split(word.lower()))  
    change_count = 1  
    while change_count > 0:  
        list, change_count = switch(list)  
    return (list)
```

Words.py

```
def split(word):  
    return word.split(",")  
  
def switch(list):  
    change_count = 0  
    for i in range(len(list) - 1):  
        if len(list[i]) > len(list[i + 1]):  
            saved_char = list[i]  
            list[i] = list[i + 1]  
            list[i + 1] = saved_char  
            change_count += 1  
    return list, change_count  
  
def order_length(word):  
    list = (split(word.lower()))  
    change_count = 1  
    while change_count > 0:  
        list, change_count = switch(list)  
    return (list)
```

Danebubble.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Dane's Mini Lab</title>
  <link rel="stylesheet" type="text/css" href="{{ url_for('static', filename='style.css') }}">
</head>
{% extends "home.html" %}

{% block content %}
<div class="container">

  <div class="center-block" style="...">
    <!-- Title -->
    <div class="col-12" style="...">
      <marquee behavior=alternate width="202" scrollamount="10px" scrolldelay="70" height="85px" bgcolor="black">Dane's Bubble Sort</marquee>
    </div>

    <!-- Input and Content -->
    <div>
      <div class="text-center">
        <br>
        <form method = "post">
          <!-- user message input -->
          <h2 style="...">Enter a word:</h2>
          <input name="word" id="word" type="text" style="width: 75px;" >
          <h2 style="...">Enter a series of numbers separated by commas:</h2>
          <input name="number" id="number" type="text" style="..." >
          <h2 style="...">Enter a series of words separated by commas:</h2>
          <input name="sentence" id="sentence" type="text" style="..." >

          <!-- shows buttons, gives them functions -->
          <p><button class="button" formaction = "/Dane_bubble/">Sort</button></p>
          <p> Alphabetized": </p>
          <p class="output">{{ sorted_word }}</p>
          <p>Ordered by value:: </p>
          <p class="output">{{ sorted_number }}</p>
          <p>Ordered by length:: </p>
          <p class="output">{{ sorted_sentence }}</p>
        </form>
      </div>
    </div>
  </div>
</div>

<style>
html,
body {
  background-image: url(https://png.pngtree.com/thumb_back/fh260/back_our/20200639/ourmid/pngtree-desert-background-for-vacation-travel-image_341709.jpg); no-repeat center center fixed;
  -webkit-background-size: cover;
  -moz-background-size: cover;
  -o-background-size: cover;
  background-size: cover;

  body {
    padding: 0;
    margin: 0;
    display: flex;
    align-items: center;
    justify-content: center;
    min-height: 100vh;

    background-image: linear-gradient(135deg, #0042D9 0%, #0093FF 60%, #0078FF 100%);
  }
}

.button {
  background-color: #1c87c9;
  -webkit-border-radius: 60px;
  border-radius: 60px;
  border: none;
  color: #ffffff;
  cursor: pointer;
  display: inline-block;
  font-family: sans-serif;
  font-size: 20px;
  padding: 10px 10px;
}
```

```
</form>
</div>
</div>
</div>
</div>

<style>
html,
body {
  background-image: url(https://png.pngtree.com/thumb_back/fh260/back_our/20200639/ourmid/pngtree-desert-background-for-vacation-travel-image_341709.jpg); no-repeat center center fixed;
  -webkit-background-size: cover;
  -moz-background-size: cover;
  -o-background-size: cover;
  background-size: cover;

  body {
    padding: 0;
    margin: 0;
    display: flex;
    align-items: center;
    justify-content: center;
    min-height: 100vh;

    background-image: linear-gradient(135deg, #0042D9 0%, #0093FF 60%, #0078FF 100%);
  }
}

.button {
  background-color: #1c87c9;
  -webkit-border-radius: 60px;
  border-radius: 60px;
  border: none;
  color: #ffffff;
  cursor: pointer;
  display: inline-block;
  font-family: sans-serif;
  font-size: 20px;
  padding: 10px 10px;
}
```

Externally added files can be added to Git  
View Files Always Add Don't Ask Again

```
padding: 10px 10px;
text-align: center;
text-decoration: none;
}
@keyframes glowing {
  0% {
    background-color: #2ba805;
    box-shadow: 0 0 5px #2ba805;
  }
  50% {
    background-color: #49e819;
    box-shadow: 0 0 20px #49e819;
  }
  100% {
    background-color: #2ba805;
    box-shadow: 0 0 5px #2ba805;
  }
}
.button {
  animation: glowing 1300ms infinite;
}
}

.text-center {
  text-align: center;
}
p {
  color: black;
  font-size: 25px;
}
</style>
{% endblock %}
```

App.py

```
from flask import Flask, render_template, request, redirect
from Letters import alphabetize
from Numbers import order
from Words import order_length

app = Flask(__name__)

@app.route("/", methods=["GET", "POST"])
def Danebubblesort():
    if request.method == 'POST':
        form = request.form
        return render_template("Danebubble.html", sorted_word=alphabetize(form["word"]),
                               sorted_number=order(form["number"]), sorted_sentence=order_length(form["sentence"]))
    return render_template("Danebubble.html")

if __name__ == "__main__":
    app.run(debug=True, port='5000', host='127.0.0.1')
```

Style.css

files are supported by IntelliJ IDEA Ultimate

```
body,html{
  height:100%;
  margin: 0;
}

.headertitle {
  color: white;
  position: relative;
  top: 90px;
  font-size: 60px;
}

.dropdown-mine {
  position: relative;
  display: inline-block;
}

.dropdown-content-mine {
  display: none;
  position: absolute;
  background-color: #f9f9f9;
  min-width: 160px;
  box-shadow: 0px 8px 16px 0px rgba(0,0,0,0.2);
  padding: 12px 16px;
  z-index: 1;
}

.dropdown-mine:hover .dropdown-content-mine {
  display: block;
}

.dropdown-link {
  text-decoration: none;
  color:black;
  transition-duration:2s;
}

.dropdown-link:hover {
  text-decoration: none;
  color:grey;
}
```