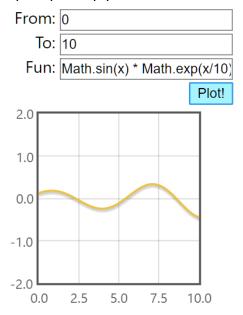
Задание и порядок выполнения ЛР №7

Разработать приложение для построения графиков тригонометрических функций на языке Javascript с HTML интерфейсом.

Пример интерфейса:



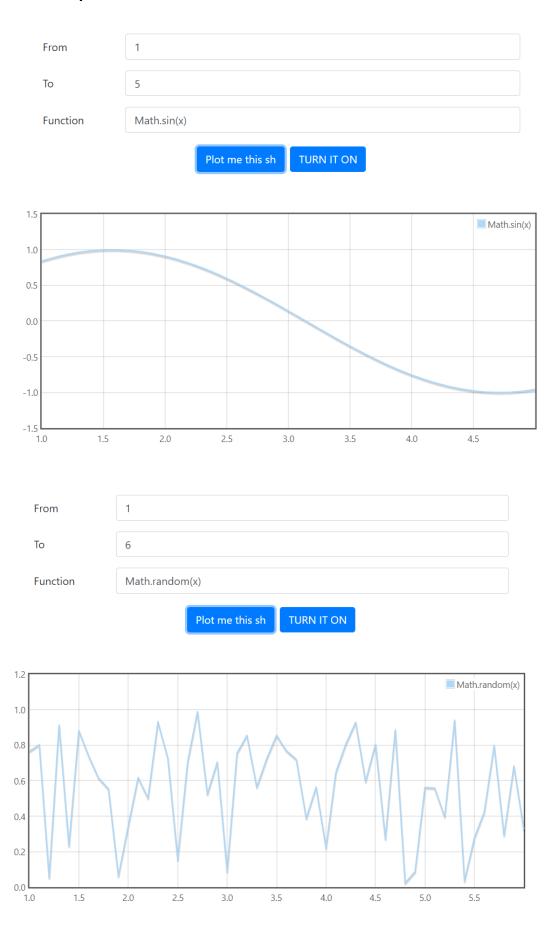
Код программы

index.html

```
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"</pre>
integrity="sha384-gg0yR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQU0hcWr7x9JvoRxT2MZw1T"
crossorigin="anonymous">
<link rel="stylesheet" href="style.css">
<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-</pre>
q8i/X+965Dz00rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"</pre>
integrity="sha384-U02eT0CpHqdSJQ6hJty5KVphtPhzWj9W01clHTMGa3JDZwrnQq4sF86dIHNDz0W1"
crossorigin="anonymous"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js" integrity="sha384-</pre>
JjSmVgyd0p3pXB1rRibZUAYoIIy60rQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM" crossorigin="anonymous"></script>
<script src="https://code.jquery.com/jquery-3.1.0.min.js"></script>
<script src="http://cdn.jsdelivr.net/jquery.flot/0.8.3/jquery.flot.min.js"></script>
<script src="index.js"></script>
<form class="m-5 align-self-center">
  <div class="form-group row justify-content-center">
    <label class="col-1 col-form-label">From</label>
    <div class="col-5">
      <input type="text" class="form-control from">
    </div>
  </div>
  <div class="form-group row justify-content-center">
    <label class="col-1 col-form-label">To</label>
    <div class="col-5">
      <input type="text" class="form-control to">
    </div>
  </div>
  <div class="form-group row justify-content-center">
```

```
<label class="col-1 col-form-label">Function</label>
    <div class="col-5">
      <input type="text" class="form-control function">
    </div>
  </div>
    <div class="form-group row justify-content-center align-items-center">
    <button type="submit" class="btn btn-primary m-1 graph">Plot me this sh</button>
        <button type="submit" class="btn btn-primary m-1 animation">TURN IT ON</button>
</form>
<div id="graph" class="output"></div>
style.css
#graph {
    width: 50%;
    height: 50%;
    display: block;
    margin-left: auto;
   margin-right: auto;
}
index.js
 $(function() {
     var $from = $('.from');
     var $to = $('.to');
     var $function = $('.function');
     var $button = $('.graph');
     var $output = $('.output');
     const delta = 0.1;
     let graph_legend = [];
     let color = 1;
     $button.on('click', function (e) {
          e.preventDefault();
         let from = parseFloat($from.val());
         let to = parseFloat($to.val());
          let x = from;
         let arraylen = ((to - from) / delta) + 1;
         let points = new Array(arraylen);
         for ( let i = 0; i < arraylen; i++ ) {</pre>
             points[i] = new Array(2);
         let i = 0;
         while (i < arraylen) {</pre>
             const y = eval($function.val());
             points[i][0] = x;
             points[i][1] = y;
             i = i + 1;
             x = x + delta;
          }
         var graph = {};
graph['label'] = $function.val();
         graph['color'] = color;
         color = color + 1;
         graph['data'] = points;
         graph_legend.push(graph);
         $.plot($output, graph_legend, {});
     });
 });
```

Скриншоты выполнения



From	1			
То	7			
Function	Math.exp(x)			
	P	lot me this sh	TURN IT ON	

