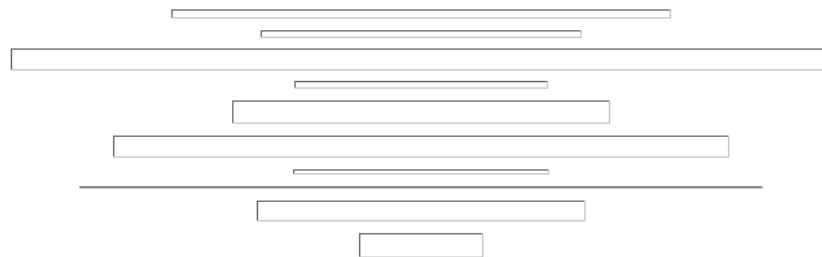| School of Information and Computer Technology |
| :---: |
| Sirindhorn International Institute of Technology |
| Thammasat University |
| ITS351 Database Programming Laboratory |

Laboratory #2: PHP Exercises

Short Exercises

- Display a table of log(x) where x is varied based on the values in an array. Display (x, log(x)) as a column (not row).

- Display ten horizontal rules with random length and thickness. Use rand(). For example,

Long Exercises

1. Write a PHP script that accepts one GET request parameter $size, and displays images formed into a triangle shape of that $size.

Display an error if $size is not set or set to a negative number. You can use any image you like. For example, when $size is 6. The code should display:

HINTS:

- Use `<img src="filename.png" width="20" height="20">` to display an image.

- Put the image in a <table>

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2. Write a PHP script that accepts one GET request parameter $text, colors each character in the text using a predefined color array.

Reuse the colors if colors are not enough for the string. Display an error if $text is not set, or empty. For example, we have 10 colors stored in an array, and $text is "siit,thammasatuniversity". The code should display

<p align="center" style="font-size:2em">siit,thammasatuniversity</p>

Define your own colors.

HINTS:

- Use % to rotate colors
- Use `<font color="some_color_code">character</font>` to color $text.

3. Write a PHP script that accepts one GET request parameter $rows, and displays an HTML table with that many rows having alternating row's background colors.

Display an error if $rows is not greater than 0, or unset. Define at least three colors. A sample output of $rows=10 is:
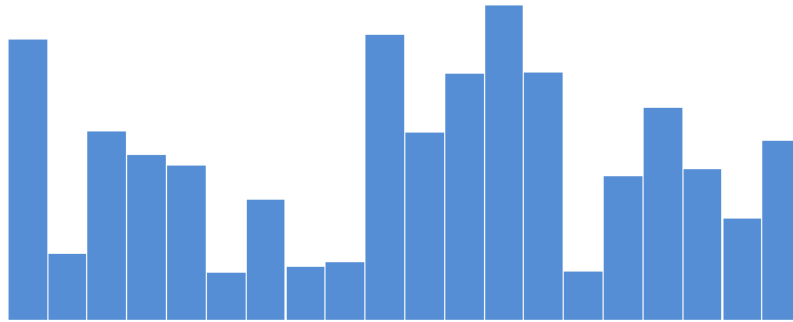
1
2
3
4
5
6
7
8
9
10

HINTS:

- Use % to rotate colors
- Use `<tr bgcolor="some_color"> </tr>` to color rows

4. Write a PHP script that accepts a GET request parameter $cols, and displays a histogram with $cols bars having random height.

Display an error if $cols is not greater than 0, or unset. Use a fixed-width image to make a bar. The height of each image should be randomly set with rand(). For example, with $cols=20, we have

All the bars' height must change on each reload.

HINTS:

- Use `<img src="filename.png" width="20" height="height_value">` to display an image.
- Use <table> and place an image in each column.

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