

1- Write a script to get longest name of array `$names`

2- Removing elements from numeric arrays causes missing indexes. Write a script to reset the array indexes. (You can use any predefined functions)

3- We have an array `$salaries` which contains integers and floats.  
Write a script to round the floats and format all numbers.

4- Write a script to generate a random password with a given `$length`.  
The password can contain any ASCII character starting from 33 (! symbol) to 126 (~ symbol)  
<https://www.asciitable.com/>

5- Write a script to shuffle array elements. (Don't use shuffle predefined function)

6- Write a script to calculate the number of digits in an integer. (Without converting it to any other data type)

7- We have a numeric array for names:

```
$names = ['ahmed', 'mohammed', 'hasan'];
```

Write a script to display names in a dynamic HTML list:

- ahmed
- mohammed
- hasan

8- We have a 2D array for instructors (outer is numeric, inner is associative):

```
$instructors = [  
    'kareem fouad' => [  
        'job' => 'backend developer',  
        'track' => 'php',  
    ],  
    'ahmed bahnasy' => [  
        'job' => 'frontend developer',  
        'track' => 'angular',  
    ],  
    'ahmed nasr' => [  
        'job' => 'backend developer',  
        'track' => '.net',  
    ],  
]
```

```
] ;
```

Write a script to display instructors data in a dynamic HTML nested list:

- kareem fouad
  - job: backend developer
  - track: php
- ahmed bahnasy
  - job: frontend developer
  - track: angular
- ahmed nasr
  - job: backend developer
  - track: .net

(Hint: use nested loops)

**Notes:**

- 1- Upload the task solutions to a github repository. Then send the url by email to the mentor.
- 2- Search about (match case in PHP 8). You will be asked about your search result in the next session.