

Assessment: Associate Delivery Engineer

Note:

1. Please provide zipped file with the codes (answer)
2. Code/Files provided by you will be checked for Plagiarism.
3. Use PHP programming for all the tasks.

Questions

1. Write a code, using listed **PHP** functions, with example
 - a. isset()
 - b. empty()
 - c. array_map()
2. Create a function in **PHP** to floor decimal numbers with any provided precision.

Example: convert(2.99999,2), convert(199.99999,4)
3. Write a code or function to convert the string and display date in the provided format?
 - a. 'October 10 2021' to '10102021' format
 - b. '1st November 2022' to '01/11/2022' format
4. Write a code using **Regex**, to solve problem listed:
 - a. Provided String: "abc@grepsr.com"
 - b. Create an array with three values. Example: ['abc', 'grepsr', 'com']
 - c. Ref: <https://regex101.com/> (Try/Test)
5. Write a recursive function to print title, price and category from the given php array.

Unset

```
$products = array(  
    'Home' => array(  
        'Electronics & Accessories' => array(  
            'items' => array(  
                array(  
                    'title' => 'SanDisk 256',  
                    'price' => '24.45'  
                ),  
                array(  

```

```
                'title' => 'Jabra Wireless Headset',
                'price' => '55.12'
            ),
        ),
        'Accessories' => array(
            'items' => array(
                array (
                    'title' => 'DJI OM 5 Smartphone Gimbal
Stabilizer',
                    'price' => '129.99'
                ),
                array (
                    'title' => 'SAMSUNG Galaxy SmartTag',
                    'price' => '30.00'
                )
            )
        )
    )
);
```

OUTPUT should look like below.

```
Unset
Array
(
    [title] => SanDisk 256
    [price] => 24.45
    [category] => Home > Electronics & Accessories
)
Array
(
    [title] => Jabra Wireless Headset
    [price] => 55.12
    [category] => Home > Electronics & Accessories
)
Array
(
    [title] => DJI OM 5 Smartphone Gimbal Stabilizer
    [price] => 129.99
```

```
[category] => Home > Electronics & Accessories > Accessories
)
Array
(
    [title] => SAMSUNG Galaxy SmartTag
    [price] => 30.00
    [category] => Home > Electronics & Accessories > Accessories
)
```

6. Write a crawler in **PHP** to extract data from URL: <https://github.com/search?q=php>
- Collect all the listings available from first 10 pages sorted by 'Most stars'
 - Collect the following data from each listing (*column names as listed in bold with example*):
 - repo**: 'ohmyzsh/ohmyzsh'
 - description**: '🥰 A delightful community-driven (with 2,100+ contributors) framework for managing your zsh configuration. Includes 300+ optional plugins (rails, git, macOS, hub, docker, homebrew, node, php, python, etc), 140+ themes to spice up your morning, and an auto-update tool so that makes it easy to keep up with the latest updates from the community.'
 - is_sponsored** : 'yes'
 - topics** :
'zsh|terminal|shell|theme|cli|productivity|oh-my-zsh|plugins|themes|cli-app|hacktoberfest|oh-my-zsh-theme|oh-my-zsh-plugin|zsh-configuration|ohmyzsh|plugin-framework'
 - stargazers** : '157k'
 - language**: 'Shell'
 - license**: 'MIT license'
 - date**: '05/04/2023' (format should be d/m/Y)
 - commits** : 6862
 - Create a '**CSV**' file named '**repositories.csv**', with data collected.
7. Write a code to create a '**CSV**' file named '**laptop.csv**' with column names as listed:
- Title
 - Price
 - Brand
- from **JSON** data. (available at <https://dummyjson.com/products/search?q=Laptop>)

****Note:** You can contact us with any questions or queries on above tasks