

Coding task for Data Acquisition Intern (PHP)

- 1. a = [3, 1, 5, 13, 18, 2, 4], sort given array in ascending and descending order.
- 2. In numbers 1 to 500, print numbers divisible by 5.
- 3. a = ['a', 'c', 'd', 'g', 'i'], b = ['x', 'z', 'n', 'k', 'd', 'l', 'a', 'm', 'n'], Find common elements in array a and array b.
- 4. Create a CSV file with the following headers and insert at least one sample data.
 - a. Name
 - b. Phone
 - c. Email
 - d. Address
- 5. ["Trapper Wolf", "Cara Dune", "Bo-Katan Kryze", "Paul Sun-Hyung Lee", "Dee Bradley Baker"]
 - a. Split names in an array by "First name", "Middle name", "Last name" Eg:

```
First name: Paul
Middle name: Sun-Hyung
Last name: Lee

First name: Cara
Middle name:
Last name: Dune
```

6. ["Maeve Millay", "Bernard Lowe", "Dolores Abernathy", "Charlotte Hale"]. Remove the letter "a" (not "A") from each element of an array.

```
Eg: ["Meve Milly", "Bernrd Lowe", ......]
```

- 7. Write a function that accepts a string and returns 1 if it's a valid password and 0 if it's invalid. A valid password satisfies the following conditions.
 - a. At least 8 characters and max 14.
 - b. At least 1 numeric character.
 - c. At least 1 capital letter and 1 lower letter
 - d. At least 1 special character. Eg (\$, !, #, &, *, etc)
- 8. Write a function that accepts two integers (x and y) and returns the sum of all the numbers between 1 to y and is divisible by x.
- 9. Reverse the "Specialties" order and remove all 'null' or empty key strings, from JSON below

```
{"addresses": [{"accepting new patients": true, "address string":
"1213 15th Ave W, Williston, ND 58801", "city": "Williston",
"languages": [], "office name": "", "pcp": null, "pcp id": null,
"phones": [{"type": "phone", "value": "(701) 572-7651"}], "state":
"ND", "street line 1": "1213 15th Ave W", "street line 2": "",
"zip": "58801"}], "group affiliations": [], "hospital affiliations":
[], "networks": [{"name": "TieredChoice Network", "tier": ""}],
"provider": {"accepting new patients": null, "facility name": "CHI
St. Alexius Health Williston Medical Center Primary Care",
"facility type": "Clinic", "first name": null, "gender": null,
"last name": null, "license number": "", "middle name": null, "npi":
null, "pcp": null, "pcp id": null, "provider type": "facility",
"rating": {"scale": null, "score": null}, "site uid":
"ed83060feb270049a4a3bf978dc4acb3", "suffix": null, "title": null,
"unparsed name": "CHI St. Alexius Health Williston Medical Center
Primary Care"}, "specialties": [{"name": "Family Medicine"},
{"name": "Internal Medicine"}, {"name": "Mental / Chemical Health
Care"}, {"name": "Obstetrics & Gynecology"}, {"name": "Pain
Medicine"}, {"name": "Pediatrics"}, {"name": "Radiation Oncology"},
{"name": "Urgent Care"}, {"name": "Urology"}]}
```

Please provide code and output.

10. Looking for a final output

```
Array (
"0" => Array ("label" => Appointment, "is_open" => 1, "open_time" =>
10:00, "close_time" => 16:00)
"1" => Array ("label" => Checkup, "is_open" => 0, "open_time" => 12:00,
"close_time" => 20:00)
)
```

From inputs below:

- \$x =
 array(0=>['label'=>Appointment,'is_open'=>1],1=>['label'=>Checkup,'
 is_open'=>0]);
- \$y = array(0=>['open time'=>'10:00'],1=>['open time'=>'12:00']);
- \$z = array(0=>['close time'=>'16:00'],1=>['close time'=>'20:00']);