Assignment 4

→ **Aim:**

Validate URL, Email, Required using empty, preg-match, filter_var in PHP.

→ **Objectives:**

1. It gives an introduction to PHP
2. It gives understanding of how one can use PHP for form validation.
3. It gives an understanding of various web servers & server-side validation.

→ **Theory:**

- PHP == "Hypertext Processor"
- It is an open source, server-side scripting language.
- It is used to generate dynamic web-pages.

- In PHP to check whether an email is valid, we filter_var() function. This function is used to validate & filter data coming from insecure sources, like user input.

Ex.
```php
<? php
    $ email = " example @abc.com ";
    if ( filter_var ($email, FILTER_VALIDATE_
                              EMAIL )) {

        // email is valid
    }
    else {
        //email not valid
    }
?>
```

- The preg_match() function searches a string for pattern, returning true if pattern matches otherwise false.

Ex. //validating name & URL.

```php
$name = "Someshwar baikwad";
$URL = "www.xyz.com";
if (!preg_match ("/^[a-zA-z]*$/", $name) {
        $errorName = "Only Letters & spaces
                                 allowed";
}

if (!preg_match ("/\b(?:(?: https ?|(tp):\/\/|
            www\.)[-a-z0-9+&@#\1%?=~_||
            ;]*[-a-z0-9+&@#\1%~_|]/i",
            $URL) {

} $urlError = "Invalid URL";
```

→ Conclusion :

The various features of PHP is studied & used for ~~for~~ form validation.