In this report, I noted what I reviewed about PHP.

**Installation on Windows**:

First, I downloaded from php.net then I extracted the file and put the folder in C drive. Then I edited the system environment PATH variable to refer to it. Using the following commands I checked whether I did well.

>echo %PATH%

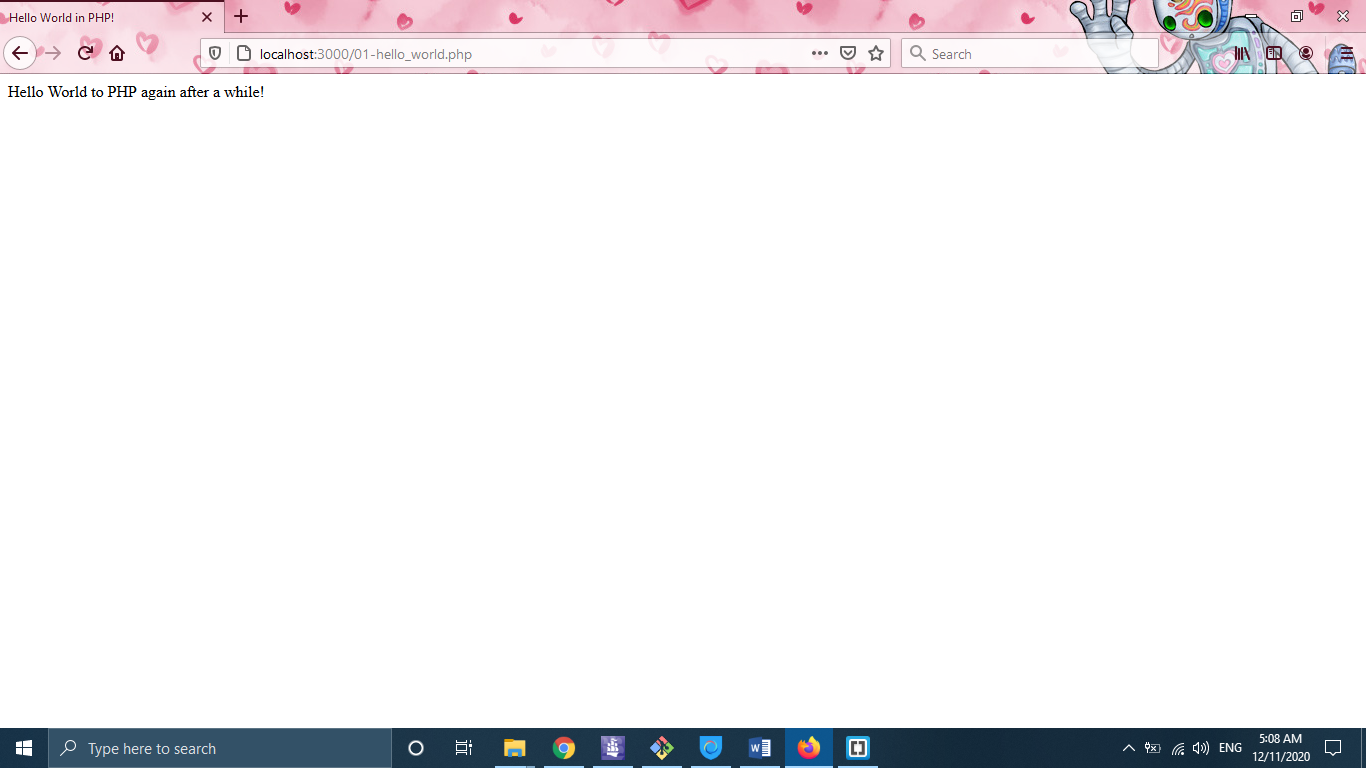
>php –v

I chose the bracket as my main text editor. Then, I created my first PHP file and observed what happened to try to execute it.

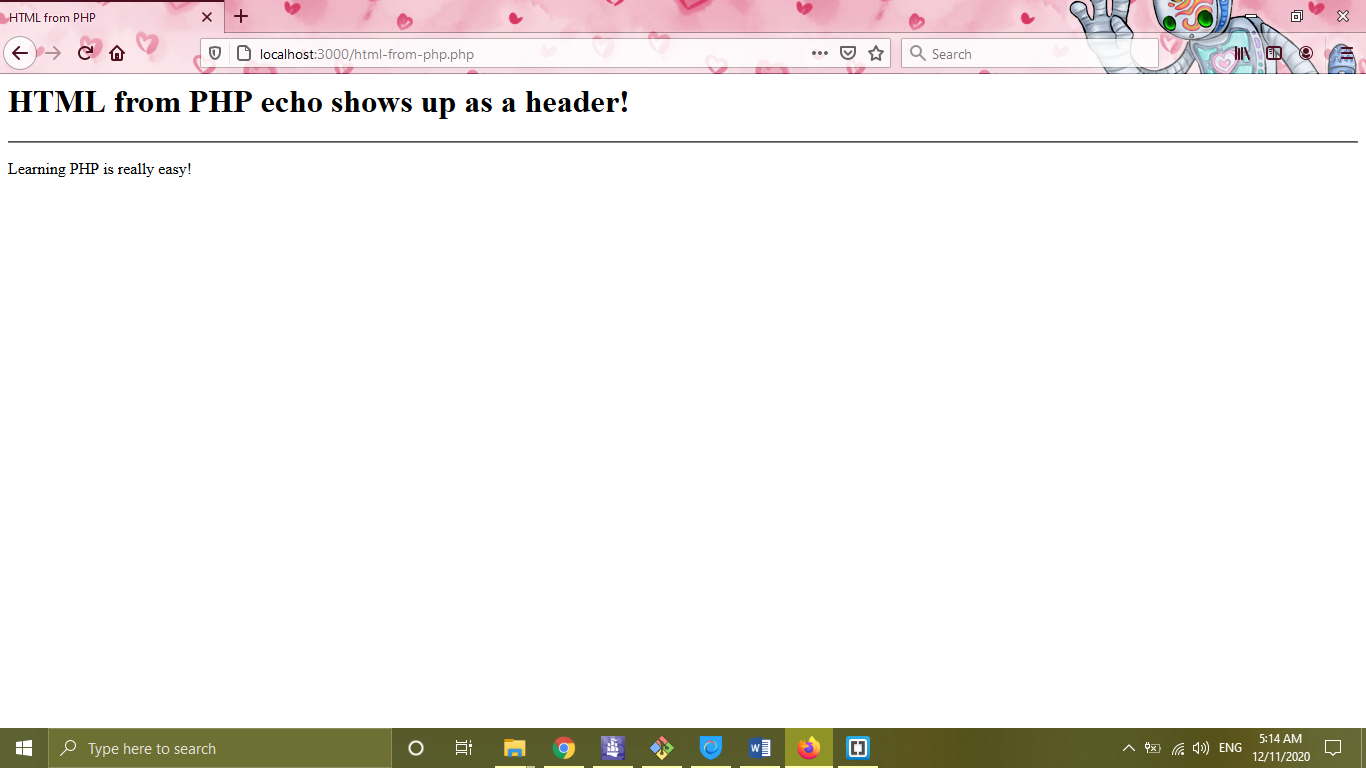
We can create a web server with the following command:

>php –S localhost:3000

In the address bar of the browser, we have to specify exactly the file which is going to be run, like localhost:3000/01-hello-world.php



Then we can send HTML elements to the browser with the echo command like what can be seen in the following screenshot.



**Variables in PHP**:

We declare variables as follows in PHP language:

$name = “Ehsan”;

$age = 26;

We can use it inside an echo instruction to show them as follows:

echo(“My names is $name, and I am $age years old.”);

**Data types in PHP**

In PHP, programmers do not need to specify the type of the variables. They can easily assign values to their variables. The main data types generally are number, text, and Boolean.

$phrase = ”To be or not to be”;

$age = 30;

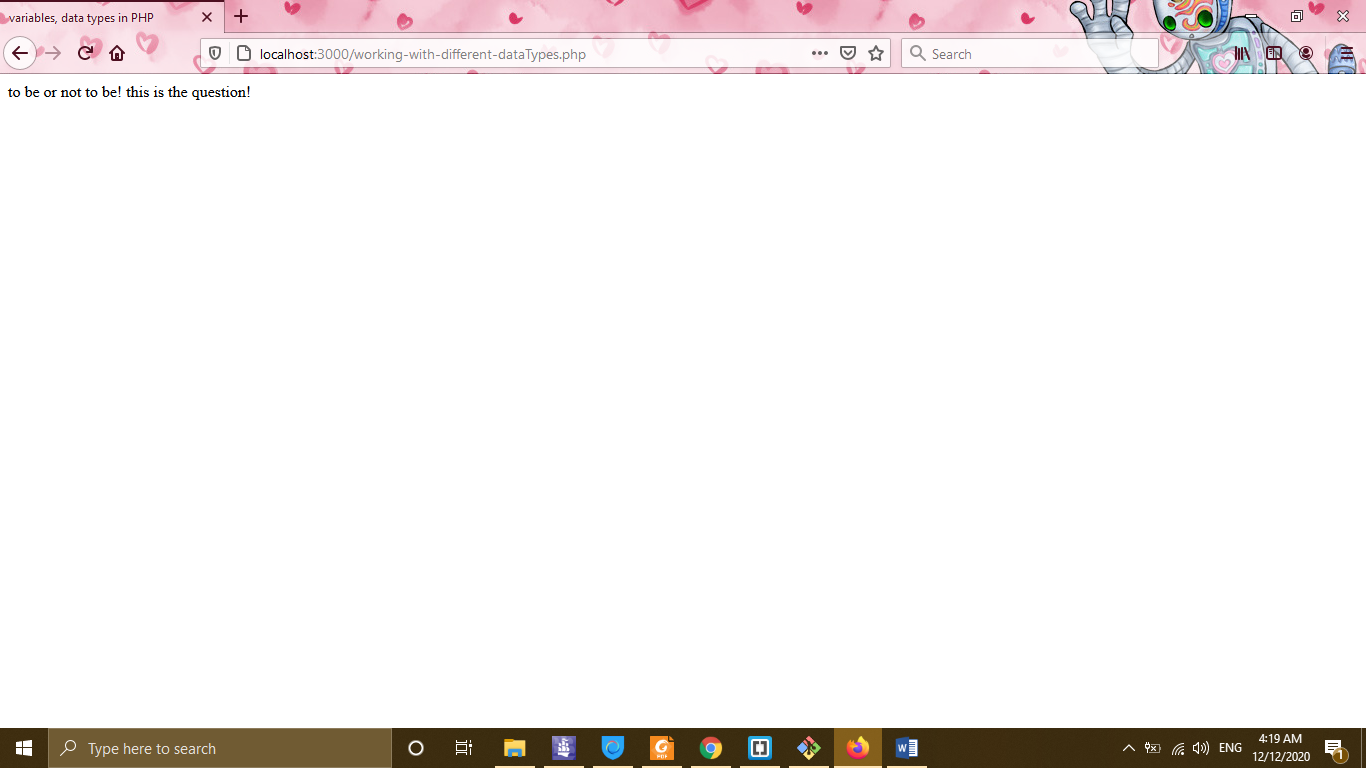
$gpa = 30.3;

$isMale = false;

There are bunch of PHP built-in methods for working with strings like strtolower(), and strtoupper(), strlen(), str\_replace(want2replace\_string, with\_this\_string, whole\_string), and substr().

$phrase = "To Be or Not to Be! This is the Question!";

echo(strtolower($phrase));



Also, we can access a specific character of a string by using brackets like what we do in python.

**Note**: if we want to do some specific job, we can simply google for it because we know the fundamentals of programming and do not need to memorize the all functions of PHP language.

Arithmetic operators are like C++ language. In working with numbers some important functions are pow(a, b), sqrt(a, b), max(a, b, …), round(2.2), ceil(2.2), floor(2.2), etc.

**Getting data from the user**

We perform this by using form tag. See the following example:

<form action="input\_from\_user.php" method="get">

Name: <input type="text" name="name">

<br>

Age: <input type="number" name="age">

<input type="submit" value="submit">

</form>

Your name is: <?php

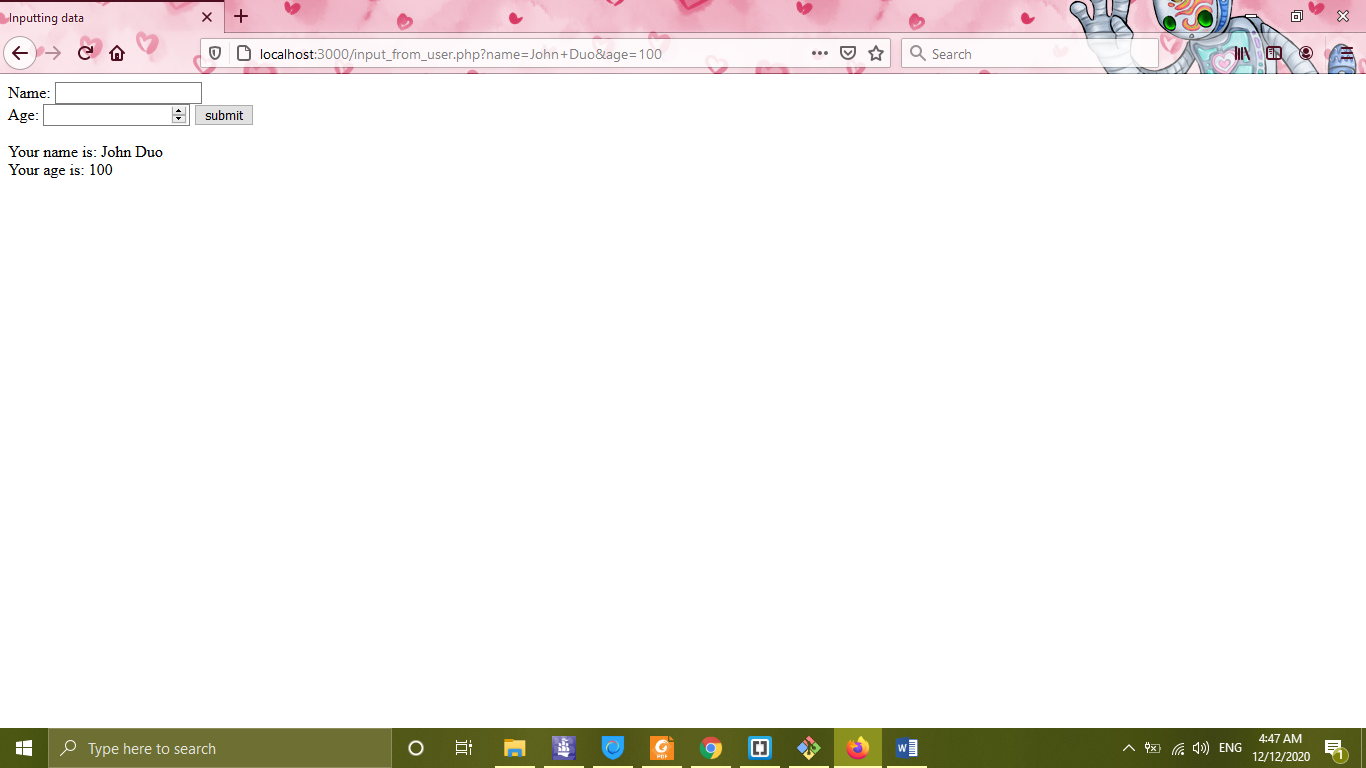
echo $\_GET["name"];

?><br>

Your age is: <?php

echo $\_GET["age"]

?>



**Note**: For inputting data from the user, it is better to use post method as follows:

<form action="input\_from\_user.php" method="post">

Name: <input type="text" name="name">

<br>

Age: <input type="number" name="age">

<input type="submit" value="submit">

</form>

Your name is: <?php

echo $\_POST["name"];

?><br>

Your age is: <?php

echo $\_POST["age"]

?>

As an example, a simple calculator implemented with another tip how to avoid data loss in the form.

