**ACTIVITY ANSWER SHEET**

|  |  |
| --- | --- |
| Name | Rejan Vincent U. Onting |
| Section: | IT-3R1 |

**Instructions**:

1. Push your output on your GITHUB repository.

2. Use the answer sheet provided save it as PDF file then push it to your GitHub.

3. Answer the ff. problems write it on the answer sheet.

4. Late submissions will no longer be accepted.

5. Caught copying outputs of others will be given sanctions.

6. Failure to follow these instructions will be given sanctions.

**Activity 1: Control Structures**

1. Write down the syntax in PHP for the ff.

|  |  |
| --- | --- |
| 1. if | <?php  $Thou = 1000;  $Hun = 100;  $Ten = 10;  if ($Thou>$Hun) {  echo "True";  }  ?> |
| 2. if…else | <?php  $Thou = 1000;  $Hun = 100;  $Ten = 10;  if ($Thou<$Hun) {  echo "True";  }  else{  echo "False";  }  ?> |
| 3. if…else if…else | <?php  $Thou = 1000;  $Hun = 100;  $Ten = 10;  if ($Thou == $Hun) {  echo "True";  }  elseif ($Hun < $Ten) {  echo "True";  }  else{  echo "Nothing went right";  }  ?> |
| 4. switch…case | <?php  $Thou = 1000;  $Hun = 100;  $Ten = 10;  switch ($Thou) {  case 100:  echo "Wrong";  break;  case 10:  echo "Wrong 2";  break;  case 1000:  echo "Finally";  break;  default:  echo "NONE";  break;  }  ?> |
| 5. for loop | <?php  $fav = 3;  for ($i=0; $i < 5 ; $i++) {  if ($i == 3) {  echo "$i is my favorite number <br>";  }  elseif ($i != 3) {  echo "$i is not my favorite number <br>";  }  }  ?> |
| 6. do while loop | <?php  $i = 0;  do {  echo "$i is not my favorite number <br>";  $i++;  } while ( $i < 7);  if ($i == 7) {  echo "$i is also my favorite number";  }  ?> |
| 7. while loop | <?php  $i = 0;  while ($i < 3) {  echo "$i is not my favorite number!<br>";  $i++;  if ($i == 3) {  echo "$i is my favorite number";  }  }  ?> |
| 8. foreach loop | <?php  $numbers = array(1,2,3,4,5);  foreach ($numbers as $value) {  if ($value == 3) {  echo "$value is my fav <br>";  }  elseif ($value !=3) {  echo "$value <br>";  }  }  ?> |
| 9. break statement | <?php  $numbers = array(1,2,3,4,5,6,7,8,9,10);  foreach ($numbers as $value) {  if ($value == 3) {  echo "$value is my fav <br>";  }  elseif ($value == 7) {  echo "$value is my last fav number";  break;  }  elseif ($value !=3) {  echo "$value <br>";  }  }  ?> |
| 10. continue statement | <?php  $numbers = array(1,2,3,4,5,6,7,8,9,10);  foreach ($numbers as $value) {  if ($value != 7) {  echo "$value is not yet 7 <br>";  continue;  }  else{  echo "$value is 7<br>";  break;  }  }  ?> |
| 11. try…catch |  |

2. Solve the ff. problem using PHP.

a. Write a program that checks if value is a number (integer).

Sample input: ‘1’ Sample input: 1

Expected output: Not a number Expected output: A number

|  |
| --- |
|  |

b. Write a program that checks if a value is positive or negative and odd or even.

Sample input: 0 Sample input: -1

Expected output: Positive & Even Expected output: Negative and Odd

|  |
| --- |
|  |

c. Write a program that checks if a value is palindrome.

Sample input: Anna Sample input: Bogart

Expected output: Palindrome Expected output: Not a Palindrome

|  |
| --- |
|  |

d. Write a program to calculate and print the factorial of a number using a for loop.

Sample input: 4

Expected output: 24

|  |
| --- |
|  |

e. Write a PHP program to generate and display the first n lines of a Floyd triangle.

Sample input: 3

Sample output:

1

2 3

4 5 6

|  |
| --- |
|  |

**Activity 2: PHP Built-in Functions**

Write down the functionalities of the ff. built-in functions in PHP.

|  |  |
| --- | --- |
| Array |  |
| Calendar |  |
| Date |  |
| Directory |  |
| Error |  |
| File System |  |
| Filter |  |
| FTP |  |
| Libxml |  |
| Mail |  |
| Math |  |
| Misc |  |
| MySQLi |  |
| Network |  |
| SimpleXML |  |
| Stream |  |
| String |  |
| XML Parser |  |
| Zip |  |
| Timezones |  |

**Activity 3: Regular Expression**

1. Define Regular Expression (RegEx) and provide example programming scenario where you can use (RegEx). Provide example syntax in PHP.

2. Solve the ff. problem using Regular Expressions.

a. Write a PHP script that checks if a string contains another string

Sample String: 'The quick brown fox'

Test input: ‘Fox’

Expected output: Fox is found the string

|  |
| --- |
|  |

b. Write a PHP script that removes the last word from a string.

Sample String: 'The quick brown fox'

Expected output: ‘The quick brown'

|  |
| --- |
|  |

c. Write a PHP script to remove nonnumeric characters except comma and dot.

Sample String: '/$123,34.00A#'

Expected output: 123,34.00

|  |
| --- |
|  |

d. Write a PHP script to extract text (within parenthesis) from a string.

Sample String: ‘The quick brown [fox].’

Expected output: Fox

|  |
| --- |
|  |

e. Write a PHP script to remove all characters from a string except a-z A-Z 0-9 or " ". Sample String: ‘abcde$ddfd @abcd )der]’

Expected output: abcdeddfd abcd der

|  |
| --- |
|  |

**Activity 4: Error Handling**

1. List down the different PHP errors. Provide example code on how to handle these errors.