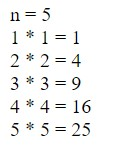
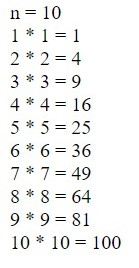
ITP4410 Revision

Question 1

Write a PHP function named ‘calculate’ to accept an integer argument **n**. You are required to write a **FOR** loop inside the function to display the following result on the browser when the function is called. The argument **n** will affect the repeat times of the **FOR** loop.   
 

(E.g.: When 5 passed into the function) (E.g: When 10 passed into the function)

Hint: initialize a variable used in the loop, defines the condition for executing the loop, increases 1 to the variable each time. You can use **<br />** tag to print the result on a new line.

Question 2

Q2a. Briefly describe what is Integrated Development Environment (IDE).

Q2b. Briefly explain Two benefits of using Integrated Development Environment (IDE).

Q2c. Briefly describe the four main components of web application.

Q2d. List two names of Security Concern on JavaScript or PHP.

Question 3

The following shows the screen capture of online favourite food survey form, it created with HTML5 element.

Graphical user interface, application

Description automatically generated

Text box, input customer’s Favourite Food.

A date picker, the default value is 2022-03-10

Email input box.

Text box, input the customer’s name.

Figure caption for the image.

PNG image, the file path is "./foodSurveyLogo.png"

The following shows the skeleton source code of "foodsurvey.html", complete the missing part Q3(a) to Q3(g).

|  |
| --- |
| <body>  <header>  <figure>  \_\_\_\_\_\_\_\_\_Q3(a)\_\_\_\_\_\_\_\_\_</img>  \_\_\_\_\_\_\_\_\_\_\_\_\_Q3(b)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ </figcaption>  <\_Q3(c)\_>  <h1> Favourite food survey</h1>  </header>  <form method="post" action="">  <p>Name:<input type="\_Q3(d)\_" required></p>  <p>Email:<input type="\_Q3(e)\_" required></p>  <p>Date of birth:<input type="\_Q3(f)\_" \_\_\_\_Q3(g)\_\_\_></p>  <p>Favourite Food:<input type="\_Q3(d)\_" required></p>  <p><input type="submit" /></p>  </form></body> |

Q3(a). Insert the image with provied file path "./foodSurveyLogo.png".

Q3(b). Complete the figure caption as shown on the screen capture.

Q3(c). Close the figure tag.

Q3(d). Complete the input type of the name input box.

Q3(e). Complete the input type of the email input box.

Q3(f). Complete the input type of date picker.

Q3(g). Complete the defult value of the date picker, the default value is 2022-03-10.

Question 4

The following shows all records in the table 'survey'. The MySQL database name is '**surveydb**'.

|  |  |  |  |
| --- | --- | --- | --- |
| **surveyNo** | **name** | **dob** | **favouriteFood** |
| 1 | Sam | 2001-03-10 | pizza |
| 2 | Leon | 2000-03-11 | pizza |
| 3 | Tim | 2012-03-10 | Double cheese burger |
| 4 | Kenneth | 2012-02-10 | Apple |

A PHP program "searchSurveyResult.php" shows the records selected by **favouriteFood**. The "**favouriteFood**" data are getting from get method.

For example, if a user browses http://localhost/searchSurveyResult.php?favouriteFood=pizza, all record that related to "pizza" will be shown (refer to the following screen capture)

Table

Description automatically generated

The following shows the incomplete source code of db.inc.php file, it used to store database configuration and function used to connect database. Complete all the missing part Q4(a) to Q4(h).

<?php

$dsn = 'mysql:dbname=\_\_Q4(a)\_;host=localhost;charset=UTF8';

$dbuser = 'root';

$dbpwd = '12345678';

function **connectTheDB()**{

global $dsn, $dbuser, $dbpwd;

try {

$pdo = new PDO($dsn, $dbuser, $dbpwd);

$pdo->setAttribute(PDO::ATTR\_ERRMODE,PDO::ERRMODE\_EXCEPTION);

return $pdo;

} catch (PDOException $e) {

die('Database Error');

}

}

The following shows the skeleton source code of "searchSurveyResult.php":

<?php

require\_once "./inc/db.inc.php";

$pdo= \_\_\_Q4(b)\_\_\_; //Call function from db.inc.php to connect database

if( !array\_key\_exists(\_\_\_\_\_\_\_\_Q4(c)\_\_\_\_\_\_\_)) {

header('location: home.php');

exit();

}

$favouriteFood = \_\_\_\_\_\_\_Q4(d)\_\_\_\_\_\_\_; // get the data from get method

try {

$sqlstmt = 'SELECT \* FROM survey ';

$sqlstmt.= ' WHERE favouriteFood = :favouriteFood ';

$statement= \_\_\_\_\_\_\_\_Q4(e)\_\_\_\_\_\_\_\_;

$statement->bindParam(\_\_\_\_\_\_\_\_\_\_Q4(f)\_\_\_\_\_\_\_\_\_\_);

\_\_\_\_\_\_Q4(g)\_\_\_\_\_; // Execute the sql statement

} catch (PDOException $e) {

die($e->getMessage());

}

?>

<html>

<head></head>

<body>

<h1>Select Data By Favourite Food</h1>

<?php

$row = \_\_\_\_\_\_\_Q4(h)\_\_\_\_\_;//count the number of record

if( \_\_\_\_\_Q4(i)\_\_\_\_ ) { // check the number of record

echo "<p>".$row." survey result(s) match</p>";

echo "<table border='1'>\n";

echo "<tr>\n";

echo "<td>surveyNo</td>\n";

echo "<td>name</td>\n";

echo "<td>dob</td>\n";

echo "<td>favouriteFood</td>\n";

echo "</tr>\n";

while( \_\_\_Q4(j)\_\_ = $statement->fetch() ) {

echo "<tr>\n";

echo "<td>". $record['surveyNo']."</td>\n";

echo "<td>".$record['name']."</td>\n";

echo "<td>".$record['dob']."</td>\n";

echo "<td>".$record['favouriteFood']."</td>\n";

echo "</tr>\n";

}

echo "</table>\n";

}else{

echo "<p> No Record Found</p>";

}?></body></html>

Given the following hints for you to complete the missing part Q4(a) to Q4(j).

Q4(a) Complete the missing database name.

Q4(b) Complete the missing coding, call the function from **db.inc.php** to connect the database.

Q4(c) Complete the missing coding, check whether the key "favouriteFood" is exist in the associative array of GET request.

Q4(d) Read the "favouriteFood" data from the get request.

Q4(e) Complete the PDO prepare statement with the SQL statement.

Q4(f) Complete the bindParam() statement, bind the value into SQL statement

Q4(g) Execute the prepared statement.

Q4(h) Complete the missing coding, get the number of record(s) found by SELECT statement.

Q4(i) Complete the missing coding, check the number of record(s) whether bigger than zero.

Q4(j) Complete the missing codine, create a variable to store the value from $statement->fetch().