Final Question Solution

Spring 2018

1.a)

```php
<?php require 'connection.php'; ?>
<?php
//for update
if (isset($_POST['register'])) {


    $first_name = $_POST['first_name'];

    $age = $_POST['age'];

    $address = $_POST['address'];


    $stmt = $con->query("insert into registration
(first_name,age,address) values('$first_name','$last_name','$age')") or
die mysqli_error($con)."at line number ".__LINE__;

    if ($stmt) {

        echo "Data Inserted"

    }

}


if (isset($_POST['update'])) {


    $first_name = $_POST['first_name'];

    $age = $_POST['age'];

    $address = $_POST['address'];

    $stmt = $con->query("update registration set
first_name='$first_name',age='$age',address='$address' where id=1") or die
mysqli_error($con)."at line number ".__LINE__;

    if ($stmt) {

        echo "Data Updated"

    }
```

```php
    }


    $stmt = $con->query('select * from users where id=1') or die
    (mysqli_error($con))."at line number ".__LINE__;

    $data = array();

    if ($stmt) {

        $data = $stmt->fetch_assoc();

    }


     ?>
```

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Registration Form</title>
    <style>
        .wrapper{
            width: 80%;
            margin: 0 auto;
        }
    </style>
</head>
<body>
    <div class="wrapper">
        <h1>Registration Form</h1>
        <form action="" method="post">
            <label for="">First Name</label><br>
            <input type="text" name="first_name" value="<?php
$data['0']['first_name']; ?>"><br>
            <label for="">Last Name</label><br>
```

```php
                    <input type="text" name="last_name"  value="<?php
$data['0']['last_name']; ?>"><br>

                    <label for="">Age</label><br>

                    <input type="number" name="age"  value="<?php
$data['0']['age']; ?>"><br>

                    <label for="">Phone</label><br>

                    <input type="text" name="phone"  value="<?php
$data['0']['phone']; ?>"><br>

                    <button type="submit">Save</button>

            </form>

      </div>

</body>

</html>
```

1.c) Difference between GET and POST

GET	POST
1. By using GET it is possible to see url parameters	1. In POST method there no possibility of finding url parameters.
2. GET is used in URL	2. POST is mainly used for send data from form.
3. Sending parameters by GET method is limited	3. POST method has not this type of restriction

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2.a)

PHP Session____

Sessions are a simple way to store data for individual users against a unique session ID. This can be used to persist state information between page requests. Session IDs are normally sent to the browser via session

PHP COOKIE__

A cookie is often used to identify a user. A cookie is a small file that the server embeds on the user's computer. Each time the same computer requests a page with a browser, it will send the cookie too. With PHP, we can both create and retrieve cookie values.

2.b)

Difference between include and require

2.c)

Resource: A resource is a special variable, holding a reference to an external resource. Resources are created and used by special functions.

Object: Objects. An Object is an individual instance of the data structure defined by a class.

Static: There may be times when a static variable is needed in a PHP function; static variables maintain their value between function calls and are tidier than using a global variable because they cannot be modified outside of the function

Global: Global scope refers to any variable that is defined outside of any function. PHP also stores all global variables in an array called $GLOBALS[index]. Its index is the name of the variable. This array is also accessible from within functions and can be used to update global variables directly.

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3.a)

JavaScript Object: In JavaScript, an object is a standalone entity, with properties and type

JavaScript Capabilities:

1. Improving Navigation

2. Validation

3. Special Effects

4. Remote Scripting (Ajax)

3.b)

```
var a = Number(prompt("Enter first base"));
var b = Number(prompt("Enter second base"));
var h = Number(prompt("Enter height"));
alert(a + b/2) * h;
```

3.c)

It is possible to add JavaScript file in html . For this <script> tag is used. Below is an example of adding JavaScript file html

```
<script src="lib/main.js"></script>
```

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4.a

Object oriented programming main deals with object and class. In class there are several access modifiers such as public, private and protected. Methods and variables of a class are mainly known as property of a class.

public: a method or variable having public keyword can be accessed from anywhere of a project just by making object instance of that class.

private: private method or variable can only be accessed inside of a class.

protected: protected method or variable can only be accessed from child class that represents his parent class.

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4.c)

```php
<?php
    interface TV_Programs{
        public function setName();
        public function setNumber();
    }
    class Shows implements TV_Programs
    {
        private $name;
        private $number;
        public function __construct($name,$number)
        {
            $this->setName($name);
            $this->setNumber($number);
        }

        public function setName($name)
        {
            $this->name = $name;
        }
        public function setNumber($number)
        {
            $this->number = $number;
        }
        public function Air()
        {
        $data = $this->name.", ".$this->number;
```

```php
        return $data;
        }
    }
    $sh1 = new Shows("Game of Thrones",67);
    $sh2 = new Shows("That 70s Show",200);
    $sh3 = new Shows("Breaking Bad",62);
    $sh1->Air();
    $sh2->Air();
    $sh3->Air();
?>
```
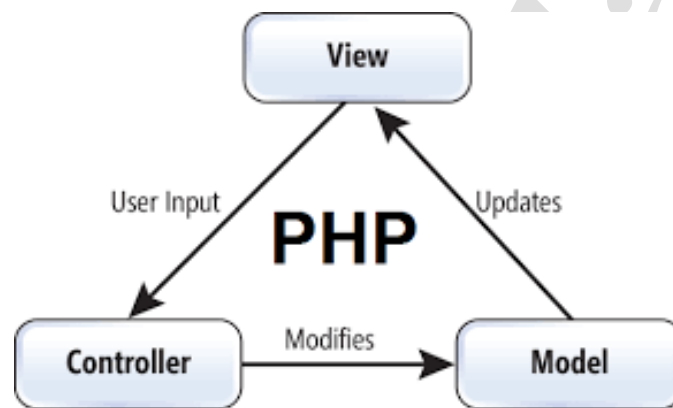
5.a)

MVC: MVC stands for model view controller.

MVC stands for Model–view–controller. It is a software architectural pattern for implementing user interfaces on computers. It divides a given software application into three interconnected parts, so as to separate internal representations of information from the ways that information is presented to or accepted from the user. In MVC pattern when a client requests a server it transfers request to the controller. After that controllers take decision which file will be served for that request. If any database request or query is needed then controller handles it and finally after generating result it shows in browser in html format.

Drawback of MVC

1) Increased complexity

2) Inefficiency of data access in view

3) Difficulty of using MVC with modern user interface

4) Need multiple programmers

5) Knowledge on multiple technologies is required

6) Developer should have knowledge of both client-side code and html code

5b) There is a huge difference between two programs. First program will check condition initially. As the value x is not greater or equal to 5. So, loop will not run. No output will be shown. For second programs do will print result first and

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then it will check condition. After printing 4 the program will stop. It will print 4 as output.

5C(i). Position of Regards

```php
<?php
     function findPos($string) {
          $position = strpos("Best Regards! Regards!", $string);
          return $position;
     }
     echo findPos("Regards"); //output is 5
?>
```

5c(ii) It is a super global variable which is used to access global variables from anywhere in the PHP script.

5c(iii).

```html
<button name="button">
     <script>document.write(new Date());</script>
</button>
```

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