Q5 PHP and Database

a Write a PHP code to create : (i) create a dotabase college
(ii) Create a table Department (Dname, Dno, Number_of_faculty)

Theory :-

1) A php script starts with <?php and ends with ?>
2) mysqli = connect() function is used to connect with mysql database
3) mysqli = close() function is used to disconnect with sql dotabase
4) mysqli -query() function is used to create dotabase table.
5) mysqli _select_db() function is used to change the default dotabase for the connection.
6) die: It is used to print message and exit from the current php script
7) mysqli _error() function return the descriptive of the error occured during the last mysqli function call.

Code :-
```
<?php
$servernome = "locolhost";
$usemome = "root";
$password = " ";
$conn = mysqli_connect($servernome, $usemome, $password);
```

```php
if (! $conn)
    die ('could not connect :'.mysqli_error());
if (mysql_query ("create database college", $con))
    echo "Database created successfully";
else
    echo "Error creating database:".mysql_error();
mysql_select_db ("college", $con);
$query = "create table department (dname varchar(50), dno int ,no_of_
    faculty int)";
if (mysql_query , $con))
    echo "Table created successfully";
else
    echo "Error creating table:".mysql_error();
mysql_close ($con);
?>
```

Output

Database Created successfully

Table created successfully

b) Write a php program to create a database named "college". Create a table named "student" with following fields (sno, snome, percentage) Insert 3 records of your choice. Display the names of the students whose percentage is between 35 to 75 in a tabular format.

Theory:

1) A php script starts with <?php and ends with ?>
2) mysqli_connect () function is used to connect with mysql data
3) mysqli_close () function is used to disconnect with mysql database
4) mysqli_query() function is used to return create database
5) The Insert into statement is used to add new records to mysql table
6) The select statement is used to select data from one or more table

Code:-

```php
<?php
$servername = "localhost";
$username = "root";
$password = "";
$database = "college";
$conn = mysqli_connect ($servername, $username, $password, $database);

if (!$conn)
    die ("connection failed:" .mysqli_connect_error());
```

```php
$query ="create table student (sno int (6)) primary key , sname varchar (20),
    percentage decimal (7,2)";
if (mysqli-query ($conn, $query)
    echo "Table created successfully";
else
    echo "Error creating table :" .mysqli-error ($conn);
$query =" Insert into student values (101, "Allena", 48)";
if (mysqli-query ($conn, $query))
    echo "Record inserted successfully";
else
    echo "Error inserted record :" .mysqli-error ();


$query 2 =" Insert into student values (102, "smith", 48)";
if (mysqli-query ($conn, $query2)
    echo "Record2 insted successfully";
else
    echo "Error inserting record :" .mysqli-error ();


$query 3 =" Insert into student values (103, "Scott", 64)";
if (mysqli-query ($conn, $query3))
    echo "Record 3 inserted successfully";
else
    echo "Error inserting record :" .mysqli-error ();


$sql ="select * from student where percentage >=35
    and percentage <=75";


$result = mysqli-query ($conn, $sql);
```

```php
if (mysqli_num_rows($result)>0)
    echo "<table border = "1">
    <tr>
    <th> sno </th>
    <th> sname </th>
    <th> percentage </th>
    </tr>";
while ($row = mysqli_fetch_assoc ($result))
    {
        echo "<tr>";
        echo "<td>". $row ['sno'] ."</td>";
        echo "<td>". $row ['sname']. "</td>";
        echo "<td>" . $row ['percentage'] ."</td>";
        echo "</tr>";
    }
    echo "</table>";
else
    { echo "Table is empty"; }
    mysqli_close ($conn);
?>
```

Output:

Table created successfully

Record 1 inserted successfully
Record 2 inserted successfully
Record 3 inserted successfully

Sno	Sname	Percentage
101	Allena	48.00
102	Smith	48.00
103	Scott	64.00

c Design a PHP page for authenticating a user

Code:-

```
<html>
<head>
    <title> Login form </title>
</head>
<body>
    <form name = "frmuser" method ="post"; action ="" ">
    <div class =" message">
    <?php
        if ($message! = "") { echo $message;}
    <table border ="0"  cell padding ="10"
    cell pacing ="1"  width ="500" align ="center class ="tbllogin")
    <tr class = "table header")
    <td align ="center" colspan ="2">
    Enter login details </td>
    </tr>
    <tr class ="tablerow")
    <td>
    <input type ="text"  name ="username" placeholder ="username"
    class ="login -input")
    </td>
    </tr>
    <tr class ="tablerow")
    <td)
    <input type ="password"  name ="password" placeholder ="password"
    class ="login -input")
```

```
</td>
<tr>
<tr class = "tableheader">
<td align = "center" colspan ="2">
<input type ="submit" class ="btn submit">
</td>
</tr>
</table>
</form>
<?php
$message = "";
if (count ($_POST))0) {
$conn = mysqli_connect ("localhost", "root", "", "phppot_example");
$result = mysqli_query ($conn, "select * from users where user_name = '".
$_POST ["username"]."' and password = '". $_POST ("password"] ."'");

$COUNT = mysqli_num_rows ($result);
if ($count ==0) {
        $message = "Invalid username or password!"; }
else {
    $message = "You are successfully authenticated!; }
}
?>
</body>
</html>
```

Output:

Enter login Details

| Username |

| Password |

| Submit |

d) Write a program to send email with attachment

Theory: $to := receipent email address
$from :- sender email address
$from name : sender name
$subject : subject of the email
$ html content : body content of the email

Code :-

```php
<?php
    $to ="rushabh285@gmail.com";
    $subject =" form";
    $from = "dharmitshoh68029@gmail.com";
    $header = "MIME -Version :-1.0" . "/n";
    $headers = "Content-type : text /html ; charset -iso-8859-1" ."/n";
    $headers = "from: $from" . "/n";

    $success = mail ($to, $subject , $message , $headers);
    if (! $success ) {
        echo "mail to . $to . "feiled.";
    }
    else {
        echo "success : mail was sent to . $to;
    }
?)
```

Output:

Success : Mail was send to rushobh286@gmail.com

Q6 Write a program to demonstrate use of sessions and cookies

Theory: ○ A session is started with session_start() function
   ○ Session variables are set with the PHP
     global variable :- $_SESSION
   ○ A cookie is created with the setcookie() function
   • isset() function used to find out if the cookie is set

Code:
Filename: session.php

```php
<?php
    session_start();
    if (isset($_SESSION['views']))
            $_SESSION['views'] += 1;
    else
            $_SESSION['view'] = 1;
    $msg = "You have visited this page". $s_SESSION('views');
    $msg .= "in this session";
?>
```

```php
<?php
    if (!isset($_COOKIE[$cookie_name]))
    {
    echo "cookie named " "". $cookie_name " " "is not set!";
    }
else
    {echo " cookie" ". $cookie_name." "is not set! <br>";
    echo "value is :- $cookie [$cookie_name]; }
?>
```

Output:

Cookie 'user' is set
value is : phormit

07 Create a shopping cart using php and mysql

Theory:- mysqli-connect-error() function show the error in the code.
    die:- It is used to connection is not successful it will
    print the content
    session-start() function start the session of php code.

Code:-
config.php
```php
<?php
$con = mysqli_connect('localhost', 'root', '', 'cart');
if (mysqli_connect_error()) {
    die ("connection fail :" . mysqli_connect_error()); }
```

index.php
```php
<?php
session_start();
    require_once 'config.php';

if (!empty ($_GET['action'])) {
    switch ($_GET['action']) {

    case 'add':
    if (!empty ($_POST['quantity'])) {
        $pid = $_GET['pid'];
        $query = "SELECT * from products
        WHERE id = " . $pid;
    $result = mysqli_query_fetch_array ($result)
```

```php
$item array = [
    $product ['code'] => [
        'name'      => $product ['name'];
        'code'      => $product ['code'];
        'quantity'  => $_POST ['quantity'];
        'price'     => $_product ['price'];
        'image'     => $_product ['image']
    ]
];
if (isset ($_SESSION['cart-item']) ! empty($_SESSION ['cart-item'])){
    if (in_array ($product ['code'], array_keys ($_SESSION ['cart-item']))){
        foreach ($_SESSION ['cart-item'] as $key => $value){
            if ($product ['code'] = $key){
                if (empty ($_SESSION ['cart-item'] [$key] ["quantity"])){
                    $_SESSION['cart-item'][$key]['quantity'] += $_POST ('quantity');
                }
            }
        } else {
            $_SESSION ['cart-item'] += $item array;
        }
    } else {
        $_SESSION ['cart-item'] = $item array;
    }
}
break;
```

```
<!DOCTYPE html>
<html>
<head>
    <title> shopping Cart </title>
</head>
<body>
    <div class = "container py-5">
    <div>
        <h3> Cart </h3>
        <a h class = "bth"  href ="index.php" action =empty"> All Item
            Remove </a>
    </div>
    <?php>
        $total_quantity = 0;
        $total_price  = 0;
    ?>
    <table>
    <tbody>
    <tr>
    <th> Name </th>
    <th> Code </th>
    <th> Quantity </th>
    <th> Item price </th>
    <th> Price </th>
    <th> Remove </th>
    </tr>
```
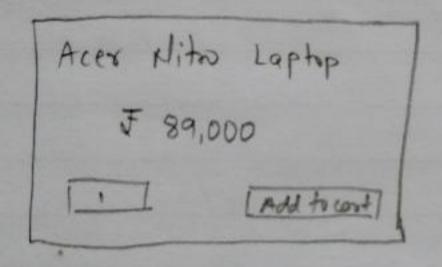
```php
<?php
$query = "SELECT * FROM products";
$product = mysqli_query ($con, $query);
if (!empty ($product)) {
while ($row = mysqli_fetch_array ($product))
} ?>
```

```html
    <form action = "index.php ? action = add & pid = <? = $row ['id'];
?> "method = "post">

    <div style = "width :18rem">
        $rc = "<? = $row ['image']; ?>"
        alt = "<? = $row ['name']; ?>'
        width = "150">
    <div>
      <div>
        <h1> Products <h1>
      <div>
    <div>
```

```php
      <?php
        $query = "SELECT * FROM products";
        $product = mysqli_query ($con, $query);
      ?>
```

```html
        <form action = "index.php? action = add & pid = <? = $row ['id']; ?>
          method = "post">
        <div style = "width :18rem">
          scr = "<? = $row ['image']; ?>"
          alt. = "<? = $row ['name']; ?>"
          width = "150"]
```

Output:

Cart

All item Removal

Name	Code	Quantity	Item Price	Price	Remove
Monitor stand	122	1	₹5,000	₹5,000	☒
			Total	₹5,000	

Product list

Acer Nitro Laptop	Monitor stand
₹ 89,000	₹5,000
[1] [Add to cart]	[1] [Add to cart]

Q8 Write program to demonstrate XML parsing with php

Theory :- • php script start with <?php and ends with ?>
• Simple XML turns on XML document into a data structure
you con iterate like a collection of arrays and object
• Simple XML-load_string() function is used to read
XML data from a string.

Code:-
```php
<?php
    myXML Data = "<? xml valversion ='1.0' encoding >'UTF-8' ?>
    <note>
        <to> IT and CS </to>
        <From> MENTOR </From>
        <heading> Reminder </heading>
        <body> ALL THE BEST </body>
    </note> ";

    $xml = simple.xml_load_string ($my XML DATA) or die ("Error: connot
    create object");
    print ($xml);
?>
```

Output:

Simple XML Element Object ([40] =>

    IT ond CS

[From] => MENTOR [heading] => Reminder

[body] => ALL THE BEST

Q10 Demonstrate json with php

Theory: Javascript object Notation
Json is a syntax for string and exchanging data
Json is text, written with Javascript object notation

Code:

```
<!DOCTYPE html)
<html)
<body>
    <p id = "demo") </p)
    <script>
    var my obj, x;
    myobj = {name : " John", age: 30,
    city = "New York" };
    x = my obj ["name"];

    document.get Element ById ("demo") .inner HTML = x;
    </script)
</body)
</html)
```

Output:-

John