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***ENROLL NO. : 21103262***

***BATCH : B11***

***DSW Lab***

***Week 9***

1. *Write a PHP program to compute the sum of the prime numbers less than 100.*

***Solution :***

*<!DOCTYPE html>*

*<html lang="en">*

*<head>*

*<meta charset="UTF-8">*

*<meta http-equiv="X-UA-Compatible" content="IE=edge">*

*<meta name="viewport" content="width=device-width, initial-scale=1.0">*

*<title>Sum of Prime Numbers</title>*

*<style>*

*#inp*

*{*

*background-color:aqua;*

*}*

*#ans*

*{*

*background-color:lightpink;*

*}*

*</style>*

*</head>*

*<body>*

*<?php*

*$num=$\_POST["num"];*

*$ans=0;*

*for($i=2;$i<$num;$i++)*

*{*

*$c=0;*

*for($j=2;$j<=intval(sqrt($i));$j++)*

*{*

*if($i%$j==0)*

*{*

*$c=1;*

*break;*

*}*

*}*

*if($c==0)*

*{*

*$ans+=$i;*

*}*

*}*

*?>*

*<form method="POST">*

*Enter number: &emsp;&emsp;&emsp;&emsp;*

*<input type="number" name="num" id="inp" value="<?php print $num?>">*

*&emsp;&emsp;*

*<button id="Sub" type="submit" name="Sub" value="Evaluate">Evaluate</button>*

*<br>*

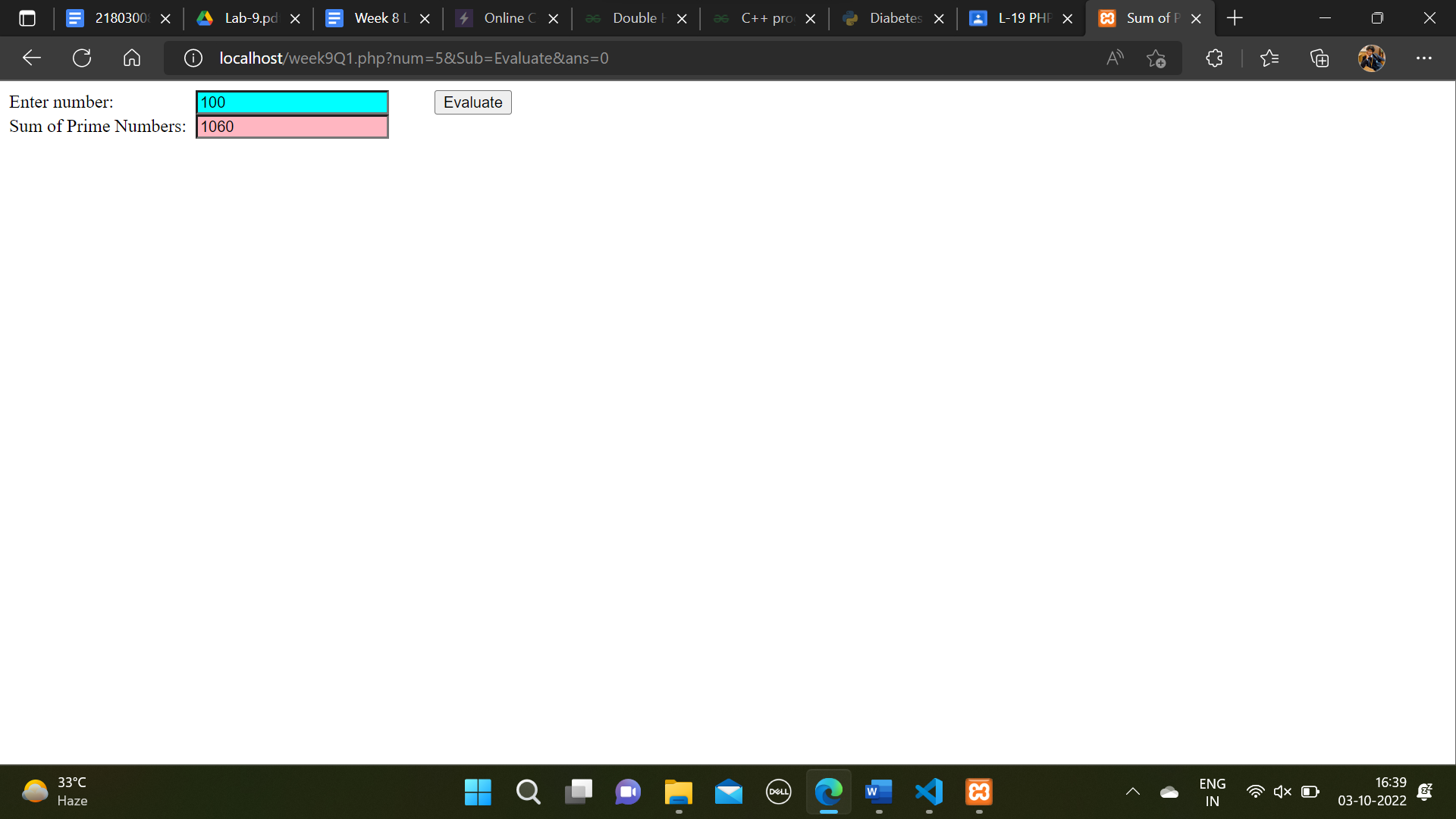
*Sum of Prime Numbers:&nbsp;*

*<input type="number" name="ans" id="ans" value="<?php print $ans?>">*

*</form>*

*</body>*

*</html>*

**

1. *Write a PHP Program named “States.php” that creates a variable “$states” with the value “Mississippi Alabama Texas Massachusetts Kansas”. Write a program that does following:*
   * *Search for a word in $states that ends in xas. Store this word in element 0 of an array $statesArray.*
   * *Search for a word in $states that begins with k and ends in s. Perform a case sensitive comparison. Store this word in element 1 of $statesArray.*
   * *Search for a word in $states that begins with M and ends with s. Store this element in element 2 of array.*
   * *Search for a word in $states that ends in a. Store this word in element 3 of array.*
   * *Search for a word in states at the beginning of the string that starts with M. Store thisword in element 4 of the array.*
   * *Output the array $statesArray to the screen.*

***Solution :***

*<!DOCTYPE html>*

*<html lang="en">*

*<head>*

*<meta charset="UTF-8">*

*<meta http-equiv="X-UA-Compatible" content="IE=edge">*

*<meta name="viewport" content="width=device-width, initial-scale=1.0">*

*<title>States Array</title>*

*</head>*

*<body>*

*<?php*

*$states="Mississippi Alabama Texas Massachusetts Kansas";*

*$words=explode(' ',$states);*

*$statesarray=array(' ',' ',' ',' ',' ');*

*$c=0;*

*foreach ($words as $i)*

*{*

*if(str\_ends\_with($i,'xas'))*

*{*

*array\_splice($statesarray,0,0,$i);*

*}*

*else if(str\_starts\_with($i,'K') && str\_ends\_with($i,'s'))*

*{*

*array\_splice($statesarray,1,0,$i);*

*}*

*else if(str\_starts\_with($i,'M') && str\_ends\_with($i,'s'))*

*{*

*array\_splice($statesarray,2,0,$i);*

*}*

*else if(str\_ends\_with($i,'a'))*

*{*

*array\_splice($statesarray,3,0,$i);*

*}*

*else if(str\_starts\_with($i,'M') && $c<count($words))*

*{*

*array\_splice($statesarray,4,0,$i);*

*}*

*else*

*{*

*continue;*

*}*

*$c++;*

*}*

*foreach($statesarray as $j)*

*{*

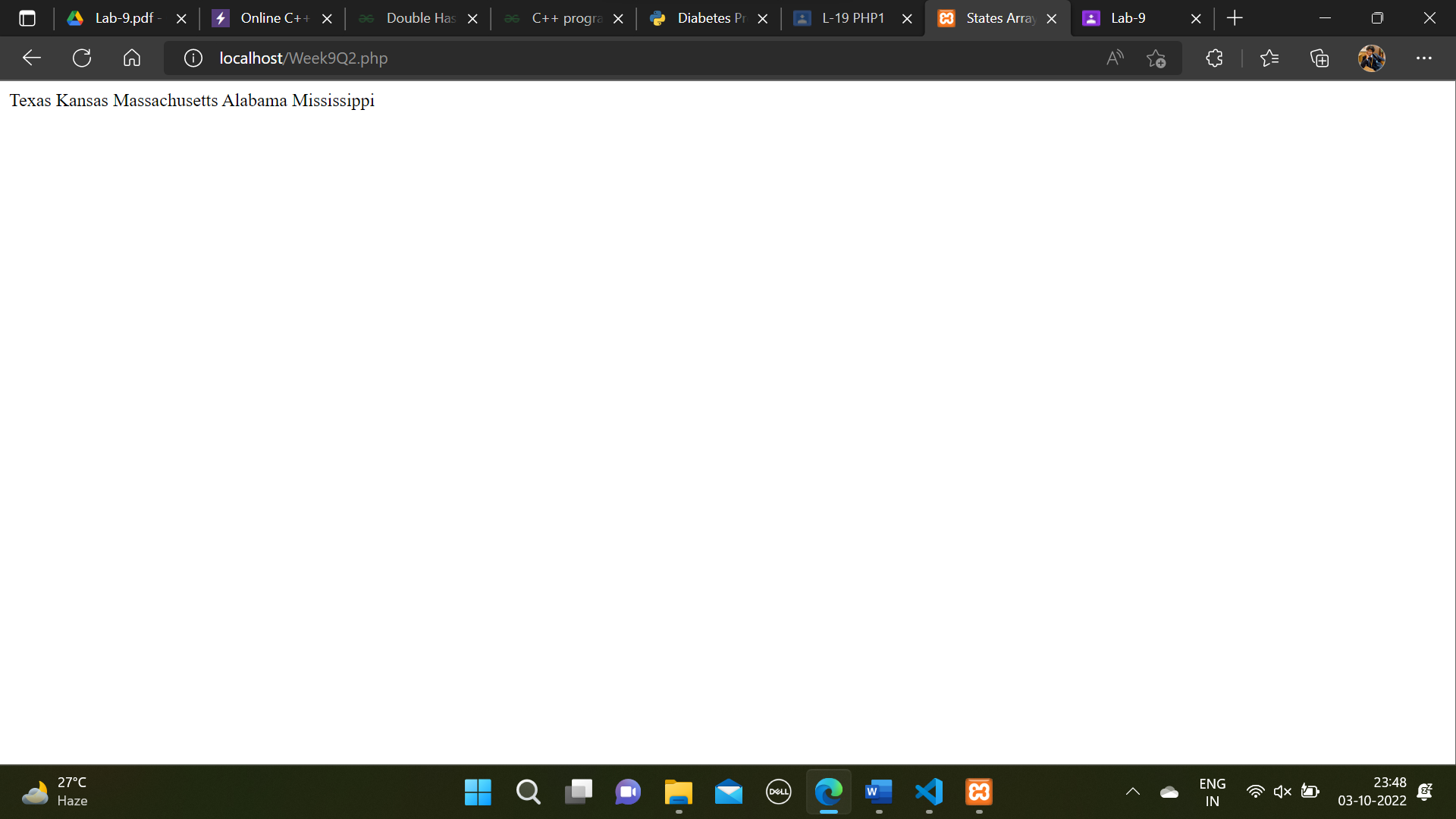
*print($j.' ');*

*}*

*?>*

*</body>*

*</html>*

**

1. *Create a* ***database Firstdb*** *in mysql from php and then create a table Student(Enrollment\_no, Name, Age, Course) and perform following operation.*
   1. *Insert the record for 10 students.*
   2. *Delete those student records who has age above 24.*
   3. *For student who has enrolment no as “110”, change course to DBW.*
   4. *Create a display function to print all the records after each above operations.*

***Solution :***

*<!DOCTYPE html>*

*<html lang="en">*

*<head>*

*<meta charset="UTF-8">*

*<meta http-equiv="X-UA-Compatible" content="IE=edge">*

*<meta name="viewport" content="width=device-width, initial-scale=1.0">*

*<title>Firstdb</title>*

*</head>*

*<body>*

*<?php*

*function display($con)*

*{*

*$result=mysqli\_query($con,'select \* from Student');*

*print("<table>");*

*while($i=mysqli\_fetch\_array($result))*

*{*

*print("<tr><td>".$i['Eno']."</td><td>".$i['Name']."</td><td>".$i['Age']."</td><td>".$i['Course']."</td></tr>"."<br>");*

*}*

*print("</table>");*

*}*

*$con=mysqli\_connect("localhost","root","jiit");*

*if(mysqli\_connect\_errno())*

*{*

*print("Failed to connect to MySQL: ".mysqli\_connect\_error());*

*}*

*else*

*{*

*mysqli\_query($con,'create database Firstdb;');*

*print("Database Created!");*

*mysqli\_query($con,'use Firstdb');*

*mysqli\_query($con,'create table Student(Eno int primary key not null,Name varchar(20),Age int, Course varchar(20));');*

*print("<br>"."Table Created!");*

*mysqli\_query($con,'insert into Student values(105,"Amogh",18,"DBW");');*

*mysqli\_query($con,'insert into Student values(106,"Archie",18,"DBW");');*

*mysqli\_query($con,'insert into Student values(107,"Shubham",19,"ES");');*

*mysqli\_query($con,'insert into Student values(108,"Arth",20,"TFCS");');*

*mysqli\_query($con,'insert into Student values(109,"Modit",35,"PCP");');*

*mysqli\_query($con,'insert into Student values(110,"Raj",20,"ES");');*

*mysqli\_query($con,'insert into Student values(111,"Abhash",31,"TFCS");');*

*mysqli\_query($con,'insert into Student values(112,"Aditya",28,"DS");');*

*mysqli\_query($con,'insert into Student values(113,"Shreya",25,"DS");');*

*print("<br>"."10 Values inserted in the table!");*

*print("<center>"."Original Table: ".'<br>'."</center>");*

*display($con);*

*mysqli\_query($con,'delete from Student where age>24');*

*print("<br>"."Records Deleted!"."<br>"."New Table"."<br>");*

*display($con);*

*mysqli\_query($con,'update Student set course="DBW" where Eno=110');*

*print("<br>"."Records Updated!"."<br>"."New Table"."<br>");*

*display($con);*

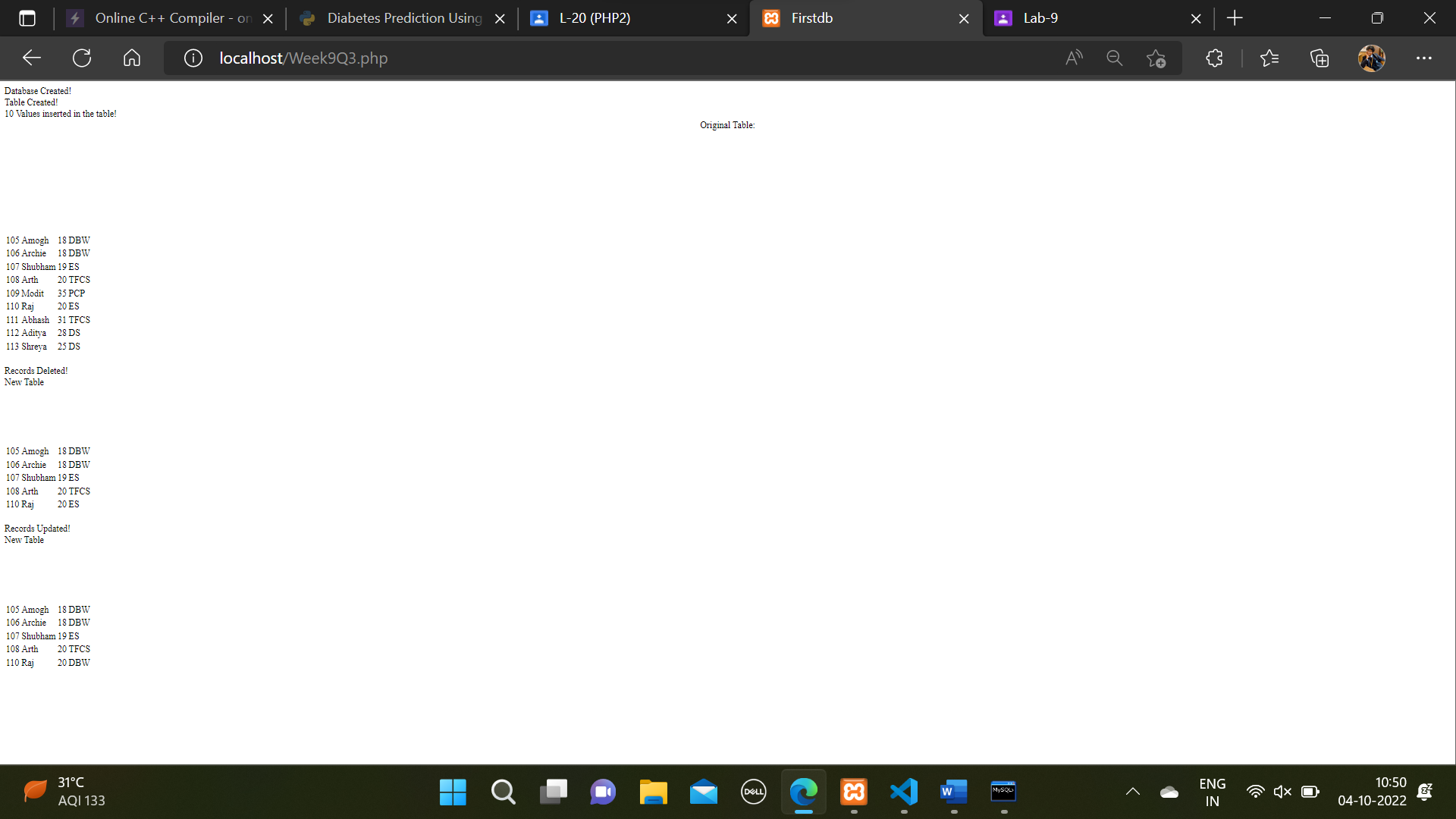
*}*

*mysqli\_close($con);*

*?>*

*</body>*

*</html>*

**

1. *Design a database called employee, which contains information like empID, Name, department, branch, Salary, Gender.* ***Design a web page******with proper validations (all values are required, salary must be greater than 0)*** *which contains two textboxes in which user can input salary range. When user selects submit button, system should display:* 
   1. *Details of all employees whose salary belongs to input range (ex 1000-10,000).*
   2. *List the highest salary profile of each category (male and female).*
   3. *Display all profiles in descending order according to emp name (whose name length is >4).*
   4. *Display the list of employees for each department in order of their salary.*

***Solution :***

*<!DOCTYPE html>*

*<html lang="en">*

*<head>*

*<meta charset="UTF-8">*

*<meta http-equiv="X-UA-Compatible" content="IE=edge">*

*<meta name="viewport" content="width=device-width, initial-scale=1.0">*

*<title>Employee Database</title>*

*</head>*

*<body>*

*<?php*

*$lower=$\_POST['lower'];*

*$upper=$\_POST['upper'];*

*?>*

*<center>*

*<h1>Input Salary Range</h1>*

*<br>*

*<form action="Week9Q4.php" method="post">*

*Minimum Salary: <input type="number" name="lower" value="<?php print($lower); ?>" id="low">*

*<br>*

*Maximum Salary: <input type="number" name="upper" value="<?php print($upper); ?>" id="upp">*

*<br>*

*<button type="submit">Print</button>*

*</form>*

*</center>*

*<?php*

*$con=mysqli\_connect("localhost","root","jiit");*

*if(mysqli\_connect\_errno())*

*{*

*print("Failed to connect to MySQL: ".mysqli\_connect\_error());*

*}*

*else*

*{*

*mysqli\_query($con,'create database Employee;');*

*print("Database Created!");*

*mysqli\_query($con,'use Employee');*

*mysqli\_query($con,'create table employee(empid int primary key not null,Name varchar(20) not null, department varchar(20) not null, branch varchar(20) not null, salary real not null check(salary>0), Gender varchar(10) not null);');*

*print("<br>"."Table Created!");*

*mysqli\_query($con,'insert into employee values(105,"Amogh","DBW","Intg CSE",100000,"Male");');*

*mysqli\_query($con,'insert into employee values(106,"Archie","DBW","CSE",100000,"Female");');*

*mysqli\_query($con,'insert into employee values(107,"Shubham","ES","IT",90000,"Male");');*

*mysqli\_query($con,'insert into employee values(108,"Arth","TFCS","IT",80000,"Male");');*

*mysqli\_query($con,'insert into employee values(112,"Bhavya","DS","Intg CSE",95000,"Female");');*

*mysqli\_query($con,'insert into employee values(109,"Modit","PCP","Intg ECE",60000,"Male");');*

*mysqli\_query($con,'insert into employee values(110,"Raj","ES","ECE",70000,"Male");');*

*mysqli\_query($con,'insert into employee values(111,"Abhash","TFCS","ECE",75000,"Male");');*

*mysqli\_query($con,'insert into employee values(113,"Shreya","DS","BT",55000,"Female");');*

*print("<br>"."10 Values inserted in the table!"."<br>");*

*print("<br>"."<br>"."<br>"."Original Table: ");*

*$result=mysqli\_query($con,'select \* from employee');*

*print("<table class='center'>");*

*print("<th>Id</th><th>Name</th><th>Department</th><th>Branch</th><th>Salary</th><th>Gender</th>");*

*while($i=mysqli\_fetch\_array($result))*

*{*

*print("<tr><td>".$i['empid']."</td><td>".$i['Name']."</td><td>".$i['department']."</td><td>".$i['branch']."</td><td>".$i['salary']."</td><td>".$i['Gender']."</td></tr>"."<br>");*

*}*

*print("</table>");*

*print("<br>"."<br>"."<br>"."(a) Details of all employees whose salary is in range ($lower,$upper) are:");*

*$result=mysqli\_query($con,'select \* from employee where salary between '.$lower.' and '.$upper);*

*print("<table>");*

*print("<th>Id</th><th>Name</th><th>Department</th><th>Branch</th><th>Salary</th><th>Gender</th>");*

*while($i=mysqli\_fetch\_array($result))*

*{*

*print("<tr><td>".$i['empid']."</td><td>".$i['Name']."</td><td>".$i['department']."</td><td>".$i['branch']."</td><td>".$i['salary']."</td><td>".$i['Gender']."</td></tr>"."<br>");*

*}*

*print("</table>");*

*print("<br>"."<br>"."<br>"."(b) The highest salary profile of each category (male and female). ");*

*$result=mysqli\_query($con,'select Name as Employee\_Name,max(salary) as Maximum\_Salary,Gender from employee group by Gender');*

*print("<table>");*

*print("<br>"."<th>Employee Name<th>Maximum Salary</th><th>Gender</th>");*

*while($i=mysqli\_fetch\_array($result))*

*{*

*print("<tr><td>".$i['Employee\_Name']."</td><td>".$i['Maximum\_Salary']."</td><td>".$i['Gender']."</td></tr>"."<br>");*

*}*

*print("</table>");*

*print("<br>"."<br>"."<br>"."(c) All profiles in descending order according to emp name (whose name length is >4).");*

*$result=mysqli\_query($con,"select\*from employee where Name like '\_\_\_\_\_%' order by Name desc;");*

*print("<table>");*

*print("<th>Id</th><th>Name</th><th>Department</th><th>Branch</th><th>Salary</th><th>Gender</th>");*

*while($i=mysqli\_fetch\_array($result))*

*{*

*print("<tr><td>".$i['empid']."</td><td>".$i['Name']."</td><td>".$i['department']."</td><td>".$i['branch']."</td><td>".$i['salary']."</td><td>".$i['Gender']."</td></tr>"."<br>");*

*}*

*print("</table>");*

*print("<br>"."<br>"."<br>"."(d) List of employees for each department in order of their salary. ");*

*$result=mysqli\_query($con,"select Name,department,salary from employee order by department,salary;");*

*print("<table>");*

*print("<th>Name</th><th>Department</th><th>Salary</th>");*

*while($i=mysqli\_fetch\_array($result))*

*{*

*print("<tr><td>".$i['Name']."</td><td>".$i['department']."</td><td>".$i['salary']."</td></tr>"."<br>");*

*}*

*print("</table>");*

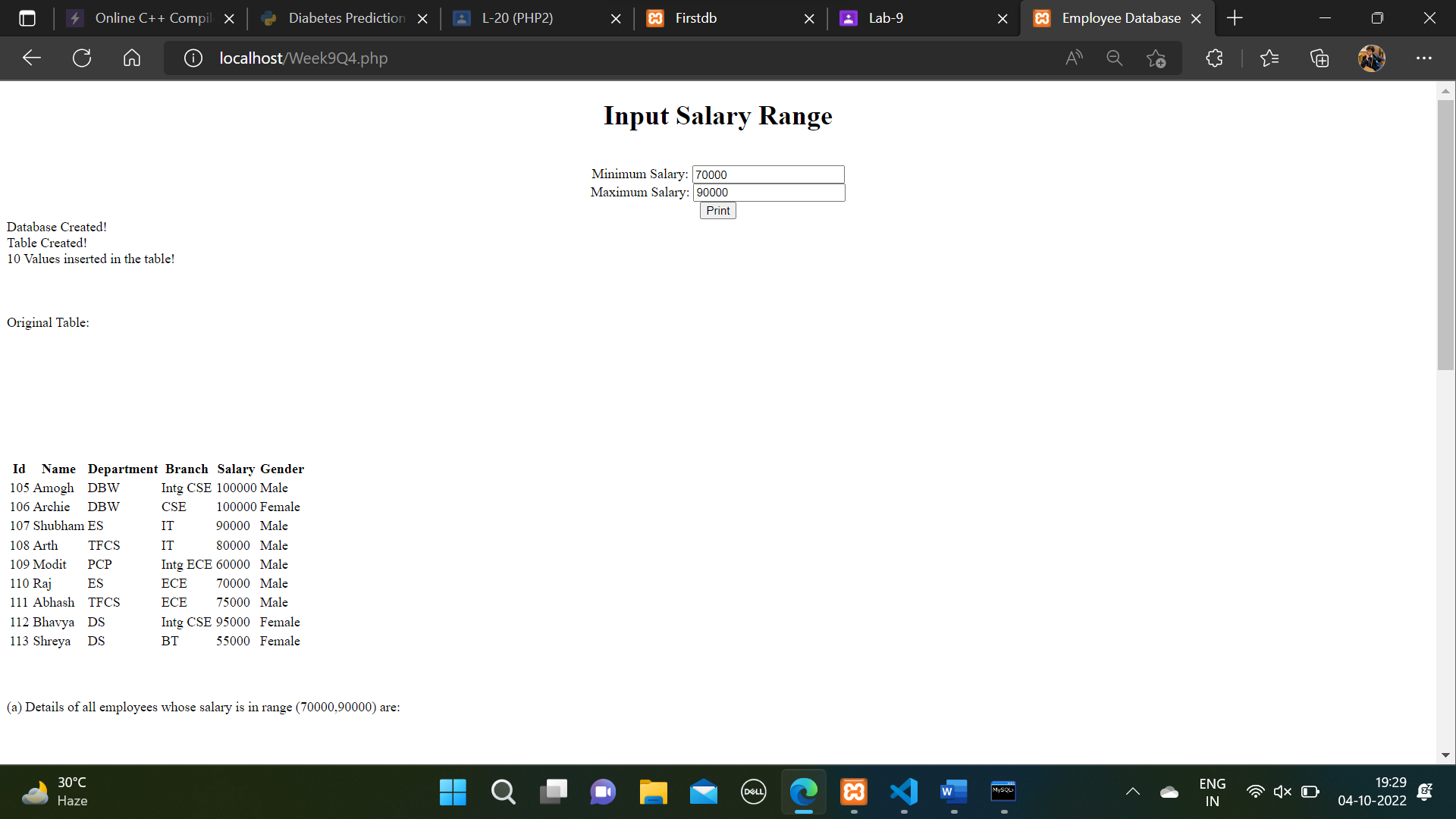
*}*

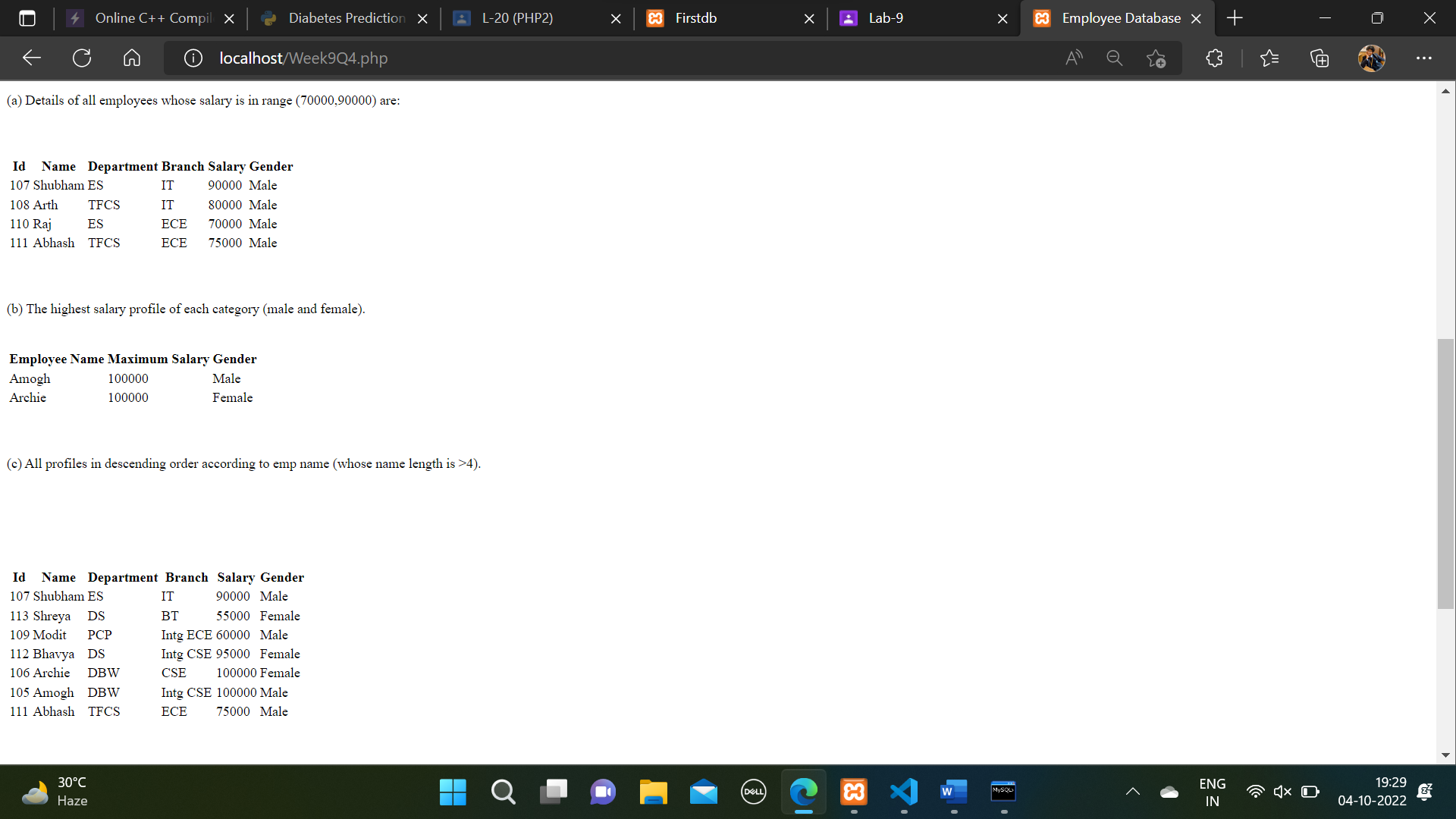
*mysqli\_close($con);*

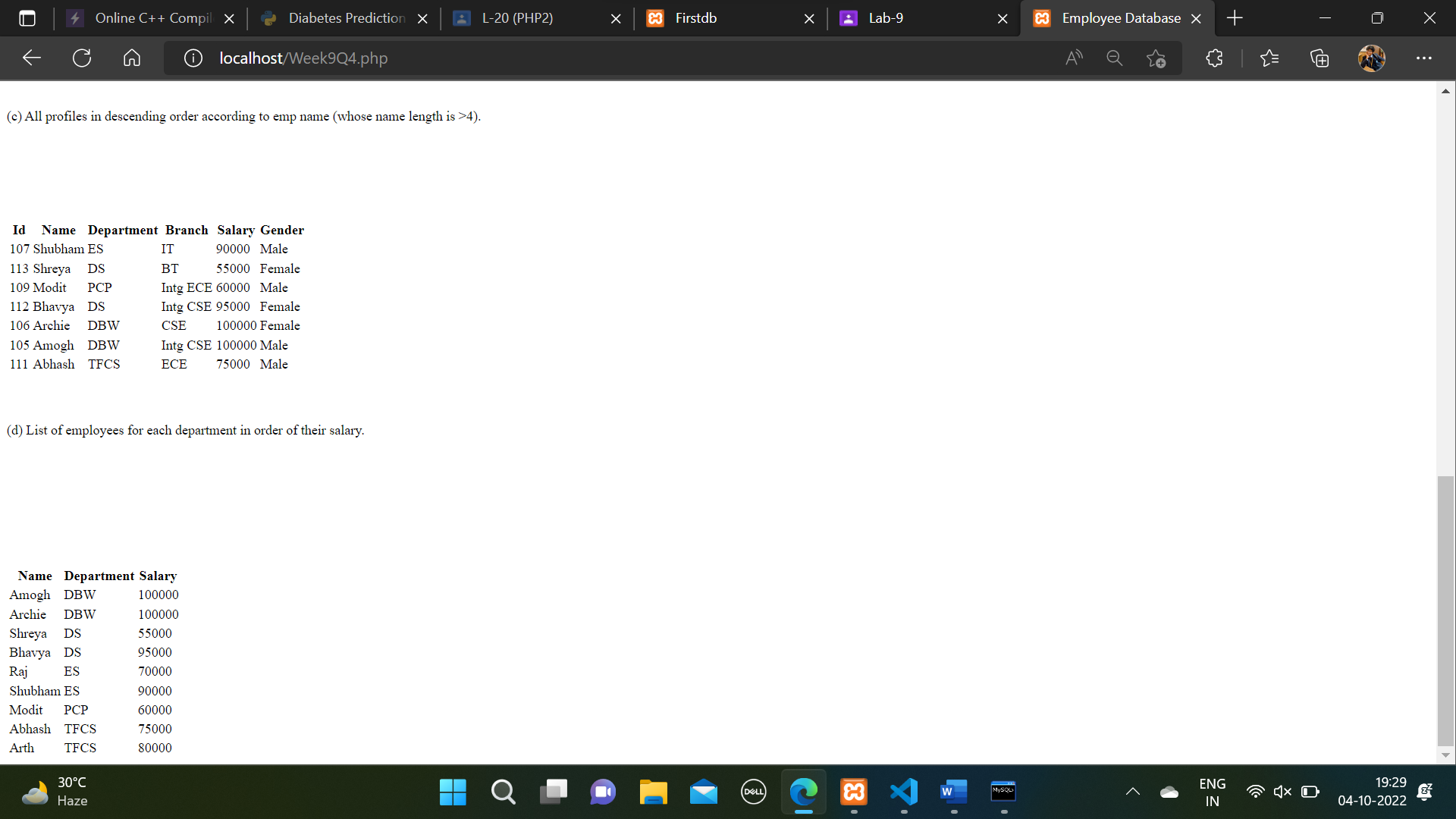
*?>*

*</body>*

*</html>*

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