

## WAD Final Term Exam (Spring 19)

Program Name BSCS

Course Code CSSE3143

Course Name Web Application Development

Course Instructors Muhammad Ali Makhdoom

Time Allowed <u>180 mints</u>

Total marks available 100

Academic Honesty Policy Academic dishonesty will not be tolerated. Academic dishonesty

includes cheating, plagiarism (copying) or any other attempt to gain an

academic advantage in a dishonest or unfair manner.

### **Instructions** (Designing a FBR Tax Collector Application)

You need to develop *FBR Tax Collector Application* which can accept employee data in the given text area and filter out valid employee's list having valid information according to the given criteria and display in a table below with tax details as per *tax slabs 2019-2020 budget presented by PTI government*.

A zip file which contains the content of the Web Application is provided to you. This zip file contains "index.php" and "data.txt", a "css" folder with "style.css", "bootstrap.css" file inside it, a "img" folder and a "screenshots" folder with the final targeted design screenshot. All your code should be added to "index.php". You shouldn't remove, add, or move any file or folder.

### **Submission**

Compress all the files into a zip file and submit it to the "final-term" folder submission directory on LMS.

# FBR Valid Employee Conditions To Apply

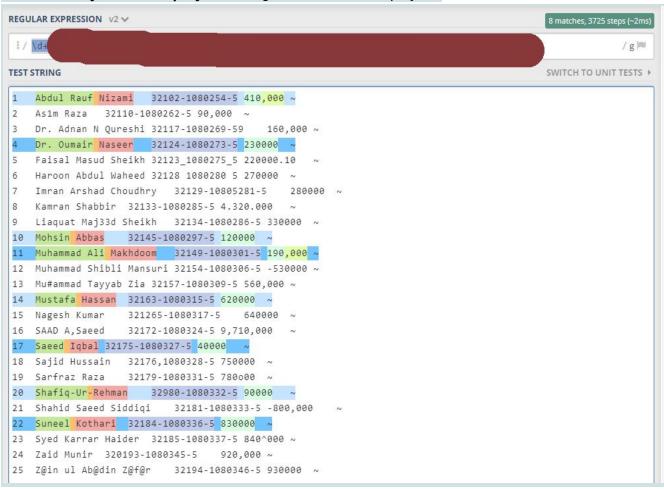
	Rules	Matches	Non-Matches		
name	<ul> <li>Should contain only alphabets</li> <li>Single space, dot(.) and dash(-) can come in between and space can come after dot too.</li> <li>Consecutive Spaces or dashes not allowed.</li> </ul>	<ul> <li>Abdul Rauf Nizami</li> <li>SAMI-UR-REHMAN</li> <li>M. USMAN</li> </ul>	<ul> <li>HAFIZAANAM</li> <li>@@LIA TABASUM</li> <li>ASRAKHALIL</li> <li>HAMMAD MUB33N</li> </ul>		
CNIC	<ul> <li>Only 13 digits CNIC is allowed.</li> <li>Only Dash(-) after 5 and 7 digits chunks is allowed but optional.</li> </ul>	<ul><li>32102-1080254-5</li><li>3214910803015</li></ul>	<ul> <li>32176,1080328-5</li> <li>321760_1080328_5</li> <li>32176-1080328-e</li> </ul>		
Monthly Salary	<ul> <li>Only positive decimal numbers are allowed.</li> <li>Multiple commas and single dot is allowed but optional.</li> </ul>	<ul><li>160,000</li><li>2,960,000</li><li>10090.50</li><li>45000</li></ul>	<ul> <li>1500.25.556</li> <li>955.</li> <li>.65</li> <li>988,</li> <li>-15002</li> </ul>		

## Question 01

- 1. After copying all text from **data.txt** and pasting it in the given text-area on index.php file, you need to submit and receive that data on the server-side on the same file. **(10)**
- 2. Write a regular expression to filter the employees with valid information according to the above-mentioned criteria. (8+8+9=25)
  - Name
  - CNIC
  - Monthly Salary

#### Hint:

Paste all data from data.txt on <a href="https://regex101.com/">https://regex101.com/</a> and write the regex There are only 8 valid employees with given data of 25 employees



After writing a valid regex, use that regex in preg\_match\_all(\$pattern, \$data, \$matches\_out), extract groups of name, cnic and salary to iterate filtered employee to display them in the table dynamically using PHP
 (15)
Hint:

Review examples on <a href="https://regexone.com/references/php">https://regexone.com/references/php</a> to check how it works

Use str\_replace() to replace, - with space in salary and CNIC column respectively to just improve readability.

Name	CNIC	Monthly Salary	
Abdul Rauf Nizami	32102-1080254-5	410,000/-	
Dr. Oumair Naseer	32124-1080273-5	230,000/-	
Mohsin Abbas	32145-1080297-5	120,000/-	
Muhammad Ali Makhdoom	32149-1080301-5	190,000/-	
Mustafa Hassan	32163-1080315-5	620,000/-	
Saeed Iqbal	32175-1080327-5	40,000/-	
Shafiq-Ur-Rehman	32980-1080332-5	90,000/-	
Suneel Kothari	32184-1080336-5	830,000/-	

## Question 02

Display Yearly Salary, Tax Rate, Monthly Tax and Yearly Tax according to given Income Tax Slabs of year 2019 - 2020 budget. (5+8+8+9=30)
 Hint:

Use php function to calculate yearly, monthly tax
Use number\_format() function to represent the price.
Verify your calculations from the website <a href="http://taxcalculator.pk/">http://taxcalculator.pk/</a> or <a href="https://propakistani.pk/tools/tax-calculator/">https://propakistani.pk/tools/tax-calculator/</a>

INCOME TAX SLABS FINANCIAL YEAR 2019-2020						
NO.	LOWER LIMIT	UPPER LIMIT	FIXED AMOUNT ADDITION	INCOME TAX RATE (%)		
1	0	600,000	0	0.00		
2	600,001	1,200,000	0	5.00		
3	1,200,001	1,800,000	30,000	10.00		
4	1,800,001	2,500,000	90,000	15.00		
5	2,500,001	3,500,000	195,000	17.5		
6	3,500,001	5,000,000	370,000	20.00		
7	5,000,001	8,000,000	670,000	22.5		
8	8,000,001	12,000,000	1,345,000	25.00		
9	12,000,001	30,000,000	2,345,000	27.5		
10	30,000,001	50,000,000	7,295,000	30.00		
11	50,000,001	75,000,000	13,295,000	32.5		
12	75,000,001		21,420,000	35.00		

### Update your table view as shown below accordingly to above given tax slabs.

Name	CNIC	Monthly Salary	Yearly Salary	Tax Rate	Monthly Tax	Yearly Tax
Abdul Rauf Nizami	32102-1080254-5	410,000/-	4,920,000/-	20%	54,500/-	654,000/-
Dr. Oumair Naseer	32124-1080273-5	230,000/-	2,760,000/-	17.5%	20,042/-	240,500/-
Mohsin Abbas	32145-1080297-5	120,000/-	1,440,000/-	10%	4,500/-	54,000/-
Muhammad Ali Makhdoom	32149-1080301-5	190,000/-	2,280,000/-	15%	13,500/-	162,000/-
Mustafa Hassan	32163-1080315-5	620,000/-	7,440,000/-	22.5%	100,750/-	1,209,000/-
Saeed Iqbal	32175-1080327-5	40,000/-	480,000/-	0%	0/-	0/-
Shafiq-Ur-Rehman	32980-1080332-5	90,000/-	1,080,000/-	5%	2,000/-	24,000/-
Suneel Kothari	32184-1080336-5	830,000/-	9,960,000/-	25%	152,917/-	1,835,000/-

# Valid Tax Payer Employees List

Name	CNIC	Monthly Salary	Yearly Salary	Tax Rate	Monthly Tax	Yearly Tax
Abdul Rauf Nizami	32102-1080254-5	410,000/-	4,920,000/-	20%	54,500/-	654,000/-
Dr. Oumair Naseer	32124-1080273-5	230,000/-	2,760,000/-	17.5%	20,042/-	240,500/-
Mohsin Abbas	32145-1080297-5	120,000/-	1,440,000/-	10%	4,500/-	54,000/-
Muhammad Ali Makhdoom	32149-1080301-5	190,000/-	2,280,000/-	15%	13,500/-	162,000/-
Mustafa Hassan	32163-1080315-5	620,000/-	7,440,000/-	22.5%	100,750/-	1,209,000/-
Saeed Iqbal	32175-1080327-5	40,000/-	480,000/-	0%	0/-	0/-
Shafiq-Ur-Rehman	32980-1080332-5	90,000/-	1,080,000/-	5%	2,000/-	24,000/-
Suneel Kothari	32184-1080336-5	830,000/-	9,960,000/-	25%	152,917/-	1,835,000/-
Total Tax Collected					348,208/-	4,178,500/-

 Save and Display the Employees data pasted in text area for 3 hours after sending to the server. (10)

#### Hint:

#### Use cookies in php

