BAHRIA UNIVERSITY (Karachi Campus)

Department of Software Engineering

Computer Programming [CSC-113]

Assignment 2 - Fall 2022

[CLO-3]

Class: **BSE-1 [A/B/C]**   Marks: **5**

Course Instructor: **MUHAMMAD FAISAL**

Read Carefully:

- This assignment has **5 problems** that you have to code and submit as a single word file
- The deadline for this assignment is *before* or *on* **Sunday, 4th December, 2022.**

WARNINGS:

- This is an individual assignment; you must solve it by yourself. Any form of plagiarism will result in receiving zero in the assignment.
- Late submission will not be accepted. Any assignment submitted after the cutoff time will receive zero.

1. Write a program that will use switch statement and calculate the salary of an employee, on the bases of following table and formulae and display the calculated salary along with his provided name

   Salary = B.S + H.R.A + M.A.+ V.M.A – P.F.

Grade	H.R.A.	M.A.	V.M.A.	P.F.
17	0.05(B.S.)	0.025 (B.S.)	0.01 (B.S.)	0.075 (B.S.)
18	0.055(B.S.)	0.03 (B.S.)	0.015 (B.S.)	0.075 (B.S.)
19	0.06(B.S.)	0.033 (B.S.)	0.015 (B.S.)	0.075 (B.S.)

Where:

B.S. => Basic Salary
H.R.A => House Rent Allowance
M.A. => Medical Allowance
V.M.A => Vehicle Maintenance Allowance
P.F. => Provident Fund

Sample Output:

Mr. Muhammad Faisal your salary is Rs. 15000

2. Multiply Array1 with Array2 and stores its result in Array3. Apply matrix rules for multiplication [RowN * ColN]. [Using loop]

3	4	5
6	7	9
5	6	8
6	4	4

Array 1

6	4	2
5	2	3
7	6	4
4	7	8

Array 2

Array 3

3. Write a program that will generate the monthly installment and total amount to be paid of personal loan where the insurance is 2% and mark up is 18% per year, initial processing fee is 3%.

4. Write an Algorithm to generate total bill of an automobile shop, where the bill is divided into mechanical charges, vehicle parts charges, Auto wash charges and other charges for a customer if the total bill of mechanical charges and vehicle parts charges is over Rs. 10,000/- then the customer will get complementary car wash and car wash charges will be removed from the bill.

5. write a program that will generate the following output

Chapter 1

    Section 1.1
    Section 1.2
    Section 1.3
    Section 1.4
    Section 1.5

Chapter 2

    Section 2.1
    Section 2.2
    Section 2.3
    Section 2.4
    Section 2.5

Chapter 3

    Section 3.1
    Section 3.2
    Section 3.3
    Section 3.4
    Section 3.5