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**Terminal Examination – Spring 2021**

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| Course Title: | Introduction to Computer Programming - Lab | | | | Course Code: | | CSC141 | Credit Hours: | | 1(0,1) |
| Course Instructor/s: | Ms. Mamoona Tasadduq | | | | Programme Name: | | BS (EE) | | | |
| Semester: | 2nd | Batch: | FA20-BEE | Section: | C | | Date: | | 23 - 06 – 2021 | |
| **Time Allowed:** | **02 Hours** | | | | **Maximum Marks:** | | | | **50** | |
| Student’s Name: |  | | | | Reg. No. |  | | | | |
| **Important Instructions / Guidelines:**   * Only ‘C’ programming language is considered wherever applicable. * Student himself/herself responsible of successful submission of exam on time at MS teams. * Your submission should have code and output screen in Pdf or Word document. * Copied exam will get zero credit. * Deadline: June 23, 2021 at 11:45 PM | | | | | | | | | | |

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| --- | --- | --- | --- | --- | --- | --- |
| Question # | Question 1 | | | | | |
| Part | A | B | C | D | E | Total |
| Obtained Marks |  |  |  |  |  |  |
| Total Marks | 10 | 10 | 10 | 10 | 10 | 50 |

**Question 1)** Create a menu driven program that should simulate the working of an HR system. The menu option should be as given below:

1. Add details of an employee
2. Find an employee by his id
3. Display all employees
4. Write the data of all employees into a file
5. Create a structure called **employee** to hold. [10]

employeeId

employee\_name,

employee\_salary

date\_of\_joining

Define a structured array. The structure array must hold information of up to 10 employees.

Create a separate function to display all the tasks: [10 x 4 = 40]

1. void **add\_details(struct employee e[],int index)** function to add an employee.
2. void **find\_employee(struct employee e[],int total)** function to find an employee using his id
3. void **display\_employees(struct employee e[], int total)** function to display all employees.
4. Void **insert\_into\_file(struct employee e[], int total)** to write data of all employees into file

**Sample Output:**

Press

1. Add details of an employee
2. Find an employee by his id
3. Display all employees
4. Write the data of all employees into a file
5. To exit the program

Enter your choice: 1

Enter the id of an employee: 1

Enter the name of an employee: Ali

Enter the salary: 20000

Enter the DOJ: 23-12-2020

Enter your choice again: 2

Enter the id to search: 4

No id found

Enter your choice again: 2

Enter the id to search: 1

The details are:

Employee id = 1

Employee Name: Ali

Employee Salary: 20000

Employee DOJ: 23-12-2020

Enter your choice again: 1

Enter the id of an employee: 2

Enter the name of an employee: Saad

Enter the salary: 30000

Enter the DOJ: 12-4-2018

Enter your choice again: 3

The details of all employees are:

Employee id = 1

Employee Name: Ali

Employee Salary: 20000

Employee DOJ: 23-12-2020

Employee id = 2

Employee Name: Saad

Employee Salary: 30000

Employee DOJ: 12-04-2018

Enter your choice again: 5

The program is terminated successfully.