|  |  |
| --- | --- |
| **Activity No. 1** | |
| **Basic C++ Programming 1** | |
| **Course Code** BCS 120 | **Program:** |
| **Course Title** Fundamentals of Programming and Data Structures | **Date Performed:** |
| **Section:** | **Date Submitted:** |
| **Name:** | **Instructor:** |
| **1. Objective:** | |
| This activity aims to demonstrate how to apply array of structures in database organization and navigate through the data elements using pointers. | |
| **2. Intended Learning Outcomes (ILOs):** | |
| After completion of this activity the students should be able to:   * 1. Write a short program for displaying addresses within the memory   2. Execute programs to display memory addresses and create structures of simple databases   3. Examine the pattern of memory addresses of arrays of various data types | |
| **3. Resources:** | |
| Computer with 32-bit Operating System  Dev C++ | |
| **4. Procedure:** | |
| **Programming Exercise A.**  **Create a program that accepts the scores of five (5) quizzes, displays the average score, and the student’s grade status (PASSED / FAILED)**  **Programming Exercise B.**  **Create a program that accepts a score and displays the grade point average of the score. The program must be in an infinite loop and must keep accepting inputs.**  **Programming Exercise C.**  **Create a program that reads a sentence and displays the number of consonants, vowels, and spaces.** | |
| **5. DATA ANALYSIS:** | |
| 1. What are the practical uses of each decision - making process? 2. What is a namespace? 3. Can a program be compiled without main () function? | |
| 1. **DISCUSSION** | |
|  | |
| 1. **CONCLUSIONS** | |
|  | |

|  |
| --- |
| **9. Assessment (Rubric for Laboratory Performance):** |
|  |