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| Subject code & Name | : | **CE144 – Object oriented programming with C++** | Practical | : | **1** | Academic Year | : | **2022-2023** |
| ID | : | **22CS044** | Name | : | **Shruti Panchal** | | | |

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| ***Practical Set - 1*** |
| **Aim 1.1:** Write a C++ program that will print output in the following form. Make sure your output looks exactly as shown here (including spacing, line breaks, punctuation, and the title and author).  Note: Use cout objects and endl manipulator.  **Expected Output:** |
| ***Code*** |
|  |
| ***Output*** |
|  |
| ***Question-Answers*** |
| **1. Differentiate between \n and endl in two points in below given tabular format:**   |  |  |  | | --- | --- | --- | | **Sr.no** | **\n** | **endl** | | 1 | It inserts a new line | It inserts a new line and flushes the stream (output buffer) | | 2 | It is supported by both C and C++ | It is only supported by C++ |   **Ans.** |
| **Aim 1.2:** Write a program to create the following table by making use of endl and setw manipulator   |  |  |  |  | | --- | --- | --- | --- | | **1** | **2** | **3** | **4** | | **2** | **4** | **6** | **8** | | **3** | **6** | **9** | **12** | | **4** | **8** | **12** | **16** | |
| ***Code*** |
|  |
| ***Output*** |
|  |
| ***Question-Answers*** |
| 1. **Explain any three manipulators in the below given tabular format.**  |  |  |  | | --- | --- | --- | | **Sr.No.** | **Manipulator** | **Description** | | 1 | Setw() | Used to set the field width in output operation. | | 2 | showpos | Forces to show positive sign on positive numbers. | | 3 | right | Adgusts output to the right. |   **Ans.** |
| **Aim 1.3:** Write a C++ program to add two floating numbers using pointer. The  result should contain only two digits after the decimal.  Note: Use fixed, scientific and setprecision() manipulators for  controlling the precision of floatingpoint numbers.  **Expected Output:**  **1.** Fill the following table based on the outcome you get by executing the functions in given sequence- fixed, scientific and setprecision(). Also attach the screenshot of output.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Sr.No.** | **Input 1 (in float)** | **Input 2 (in float)** | **Functions** | **Results** | | **1.** | **23.45** | **45.54** | **Fixed** | **68.990000** | | **2.** | **23.45** | **45.54** | **scientific** | **6.899000e+01** | | **3.** | **23.45** | **45.54** | **setprecision** | **6.90e+01** |   **Expected Output:**  **1.** Fill the following table based on the outcome you get by executing the functions in given sequence- scientific, fixed and setprecision(). Also attach the screenshot of output.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Sr.No.** | **Input 1 (in float)** | **Input 2 (in float)** | **Functions** | **Results** | | **1.** | **44.678** | **15.634** | **scientific** | **6.031200e+01** | | **2.** | **44.678** | **15.634** | **fixed** | **60.312000** | | **3.** | **44.678** | **15.634** | **setprecision** | **60.31** | |
| ***Code*** |
| Code 1:    Code 2: |
| ***Output*** |
|  |
| ***Question-Answers*** |
| 1. **Which ios class function will be responsible for setting the number of decimal places?**   **Ans.**  Setpricision is a function wil be responsible for setting the number of decimal places. |
| **Faculty Signature: Grade:** |