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| Subject code & Name | : | **CE144 – Object oriented programming with C++** | Practical | : | **1** | Academic Year | : | **2022-2023** |
| ID | : | **22CS000** | Name | : | **Abhishek Patel** | | | |

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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*** |
| //This program is created by 22cs000  #include <iostream>  using namespace std;  int main() {  int n;  cout << "Enter a positive integer: ";  cin >> n;  // run a loop from 1 to 10  // print the multiplication table  for (int i = 1; i <= 10; ++i) {  cout << n << " \* " << i << " = " << n \* i << endl;  }  return 0;  Cout<<” This program is created by 22cs000”<<endl;  } |
| ***Output*** |
|  |
| ***Question-Answers*** |
| **1. Differentiate between \n and endl in two points in below given tabular format:**  **Ans.**  **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++. |
| **Aim 1.2: Write a program to create the following table by making use of endl and setw manipulator**  **https://lh6.googleusercontent.com/S3DVmuFSLpEN1tkSRpBhW6BQQ_rWR-UgN5onTKdoztcC7w4ElJukE9nwGv73IAZ04NjW_NfBsdSrtdaXVojaNkGpxbIgHUuRL6jLAg_m48IRXU11wrVeqkBVU_rRL1Wm07AB5qHd_Py1t05P8Lzs8w** |
| ***Code*** |
|  |
| ***Output*** |
| **https://lh6.googleusercontent.com/YF5SRDBK1uzvImSb0tGKwhaNCjPnElsLoKhxG5wcUx_DEiS6OgGXDx3H2mGDT6NKCuuRCdthoxcjKTV64FEbBra4aFSQt605N6IswkyT-9vkPoAnWf4U7ZoaigLNL8t81sVkz9tfcDAOX1_2-wQiIQ** |
| ***Question-Answers*** |
| 1. **Explain any three manipulators in the below given tabular format.**   **Ans.**  **1.** endl: It is used to insert a new line and after entering a new line it flushes the output stream.  **2.** ws: It is used to ignore the whitespaces in the string sequence.  **3.** ends It inserts a null character into the output stream. |
| **Faculty Signature : Grade:** |