National University of Computer and Emerging Sciences

DEPARMENT OF COMPUTER SCIENCE

Object Oriented Programming-Lab

Lab-07-Tasks

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OOP (LAB-07) HOME-WORK/TASKS

Due Date: 21-Apr-2021

Engr. Khuram Shahzad
(Instructor)

LAB-07 CONTENTS

Manipulator (fixed & scientific, showpoint, setprecision, , setw, setfill and Left and right Manipulators)

Debugging: Understanding Logic Errors and Debugging with cout Statements

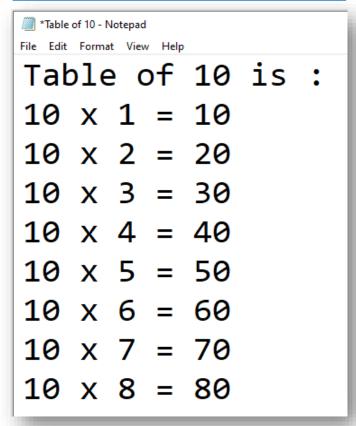**File Input/Output (Open, Read, Write the file)**

Programming Example: Movie Tickets Sale and Donation to Charity

Programming Example: Student Grade

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1. Write a program in C++ to Find the Number of Lines in a Text File.
2. Write a program in C++: which will first store table into a file and then display on screen form the file.
   - **Program will take 3 input:**
     - **Table Value: 10**
     - **Final value: 8**
     - **File Name: Table of 10**

Text File

*Table of 10 - Notepad

File   Edit   Format   View   Help

```
Table of 10 is :
10 x 1 = 10
10 x 2 = 20
10 x 3 = 30
10 x 4 = 40
10 x 5 = 50
10 x 6 = 60
10 x 7 = 70
10 x 8 = 80
```

Output

```
Table of 10 is :
10 x 1 = 10
10 x 2 = 20
10 x 3 = 30
10 x 4 = 40
10 x 5 = 50
10 x 6 = 60
10 x 7 = 70
10 x 8 = 80
```

3. **Write C++ program determines the money to be donated to a charity.**

* **It prompts the user to input**
  * **The movie name,**
  * **Adult ticket price,**
  * **Child ticket price,**
  * **Number of adult tickets sold,**
  * **Number of child tickets sold, and**
  * **Percentage of the gross amount to be donated to the charity.**
* **Store output in a file (Use manipulator like setw, setfill, right, left, etc.)**

```
grossAmount = adultTicketPrice * noOfAdultTicketsSold +
              childTicketPrice * noOfChildTicketsSold;
```

```
amountDonated = grossAmount * percentDonation / 100;
```

```
netSaleAmount = grossAmount - amountDonated;
```

* **Output in the file must be look like**

```
-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*
Movie Name: ......................... Journey to Mars
Number of Tickets Sold: ...........        2650
Gross Amount: ...................... $ 9150.00
Percentage of Gross Amount Donated:    10.00%
Amount Donated: .................... $  915.00
Net Sale: .......................... $ 8235.00
```

THANKS ☺

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