FAST NATIONAL UNIVERSITY

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```cpp
1   #include <iostream>
2   #include <fstream>
3
4   using namespace std;
5
6   void Line_Counter();
7   void Display_Data();
8
9   int main()
10  {
11      Line_Counter();
12      return 0;
13  }
14
15  void Display_Data()
16  {
17      ifstream fin("Line_Counter.txt");
18      string line;
19      while (fin)
20      {
21          if (fin.eof())
22              break;
23          getline(fin, line);
24          cout << line << endl;
25      }
26  }
27
28  void Line_Counter()
29  {
30      ofstream fout;
31      fout.open("Line_Counter.txt");
32      fout << "Hello World.\nHow are You.\nMy Name is Jawad Ahmed.\nHave a Great Day.\nI am studying in Fast University.";
33      fout.close();
34
35      ifstream fin;
36      fin.open("Line_Counter.txt");
37      string line;
38      int lineCounter = 0;
```

```cpp
        }
}

void Line_Counter()
{
        ofstream fout;
        fout.open("Line_Counter.txt");
        fout << "Hello World.\nHow are You.\nMy Name is Jawad Ahmed.\nHave a Great Day.\nI am studying in Fast University.";
        fout.close();

        ifstream fin;
        fin.open("Line_Counter.txt");
        string line;
        int lineCounter = 0;

        while (fin)
        {
            if (fin.eof())
                break;
            getline(fin, line);
            lineCounter += 1;
        }
        fin.close();

        cout << "The Data in the File is" << endl;
        cout << "*************************************************************" << endl;
        Display_Data();
        cout << "*************************************************************" << endl;
        cout << endl;
        cout << "The Number of Lines in the file are:   " << lineCounter << endl;
}
```

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QUESTION NO 1 (OUTPUT)

```
cd "/home/namiirr/SEMESTERno2/oop_lab/lab_task_07/" && g++ qno1.cpp -o qno1 && "/home/namiirr/SEMESTERno2/oop_lab/lab_
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_task_07$ cd "/home/namiirr/SEMESTERno2/oop_lab/lab_task_07/" && g++ qno1.cp
2/oop_lab/lab_task_07/"qno1
The Data in the File is
**************************************************************
Hello World.
How are You.
My Name is Jawad Ahmed.
Have a Great Day.
I am studying in Fast University.
**************************************************************

The Number of Lines in the file are:    5
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_task_07$
```

```cpp
1   #include <iostream>
2   #include <fstream>
3
4   using namespace std;
5
6   void Display_Table(int number, int reachValue);
7   void Add_Table(int number, int reachValue);
8
9   int main()
10  {
11      int reachValue = 0;
12      int number = 0;
13      cout << "Enter Which Number Table you Want: ";
14      cin >> number;
15      cout << "Enter How Many Multiples You Want: ";
16      cin >> reachValue;
17      cout << endl;
18      Add_Table(number, reachValue);
19      Display_Table(number, reachValue);
20      return 0;
21  }
22
23  void Add_Table(int number, int reachValue)
24  {
25      cout << "Writing Table To a File" << endl;
26      ofstream fout;
27      fout.open("Tableof10");
28      fout << "Table of  " << number << "\n";
29      for (int start = 1; start <= reachValue; start++)
30      {
31          fout << number << " X " << start << " " <<  " = " << number * start << "\n";
32      }
33      fout.close();
34      cout << "The Table is written " << endl << endl;;
35  }
36
```

```cpp
    for (int start = 1; start <= reachValue; start++)
    {
        fout << number << " X " << start << " " <<   " = " << number * start << "\n";
    }
    fout.close();
    cout << "The Table is written " << endl << endl;;
}

void Display_Table(int number, int reachValue)
{
    cout << "Getting Data from a file" << endl << endl;
    ifstream fin;
    fin.open("Tableof10");
    string line;
    while (fin)
    {
        if (fin.eof())
            break;
        getline(fin, line);
        cout << line << endl;
    }
    fin.close();
}
```

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QUESTION NO 2(OUTPUT)

```
The Number of Lines in the file are:   5
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_task_07$ cd "/home/namiirr/SEMESTERno2/oop_lab/lab_task_0
2/oop_lab/lab_task_07/"qno2
Enter Which Number Table you Want: 10
Enter How Many Multiples You Want: 8

Writing Table To a File
The Table is written

Getting Data from a file

Table of  10
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

namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_task_07$ ▮
```

```cpp
#include <iostream>
#include <fstream>
#include <iomanip>

void Add_Data();
void Display_Data();

using namespace std;

int main()
{
    Add_Data();
    return 0;
}
void Add_Data()
{
    string movieName;
    int adultTicketPrice, childTicketPrice, adultSoldTicket, childSoldTicket, totalTicketSold;
    double percentageGross = 0.0;

    cout << "Enter the Movie Name:  ";
    getline(cin, movieName);

    cout << "Enter the Adult Ticket Price :  ";
    cin >> adultTicketPrice;

    cout << "Enter the Child Ticket Price:  ";
    cin >> childTicketPrice;

    cout << "Enter the Adult Sold Ticket:   ";
    cin >> adultSoldTicket;

    cout << "Enter the Child Sold Ticket:   ";
    cin >> childTicketPrice;

    cout << "Enter the Total Ticket Sold:   ";
    cin >> totalTicketSold;
```

```cpp
        cin >> totalTicketSold;

        cout << "Enter the Percetage Gross: ";
        cin >> percentageGross;


        int grossAmount = (adultTicketPrice * adultSoldTicket) + (childTicketPrice * childTicketPrice);

        int amountDonated = grossAmount * percentageGross / 100;

        int netSaleAmount = grossAmount - amountDonated;

        ofstream fout("Movie_Data.txt");
        fout << "_*_ * _ _ _ * _ * _ * _ * _ * _ * _ * _ * _ * _ * _ * _ * _ * _ * _ * _ * _ * _ *__*\n";
        fout << left;
        fout << setw(65)  << setfill('.') << "Movie Name:     " << "   " << movieName << "\n";
        fout << setw(65) << setfill('.') << "Number of Tickets Sold:     " << "   " << totalTicketSold << "\n";
        fout << setw(65) << setfill('.') << "Gross Amount:  " << "  $" << grossAmount << "\n";
        fout << fixed << showpoint;
        fout << setprecision(2);
        fout << setw(65) << setfill('.') << "Percentage of Gross Amount Donated:    " << "   " << percentageGross << "%\n";
        fout << setw(65) << setfill('.') << "Amount Donated:     " << "   $" << amountDonated << "\n";
        fout << setw(65) << setfill('.') << "Net Sale:  " << "   $" << netSaleAmount << "\n";
        fout.close();
        string userInput;
        cout << "The Data is Added Successfully You Want to Read the Data on console Y or N:      ";
        cin >> userInput;
        cout << endl << endl;
        if (userInput == "Y" || userInput == "y")
        {
            Display_Data();
        }
        else{
            cout << "Data is added successfully you can check" << endl;
        }
}
```

```cpp
68        }
69        else{
70            cout << "Data is added successfully you can check" << endl;
71        }
72    }
73
74    void Display_Data()
75    {
76        ifstream fin;
77        fin.open("Movie_Data.txt");
78        string line;
79        while (fin)
80        {
81            if (fin.eof())
82                break;
83            getline(fin, line);
84            cout << line << endl;
85        }
86    }
```

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QUESTION NO 3 (OUTPUT)

Enter the Movie Name: Godzilla VS Kong
Enter the Adult Ticket Price : 45
Enter the Child Ticket Price: 54
Enter the Adult Sold Ticket: 45
Enter the Child Sold Ticket: 54
Enter the Total Ticket Sold: 2650
Enter the Percetage Gross: 10
The Data is Added Successfully You Want to Read the Data on console Y or N: Y

 * *
__ __
Movie Name: .... Godzilla VS Kong
Number of Tickets Sold: 2650
Gross Amount: $4941
Percentage of Gross Amount Donated: 10.00%
Amount Donated: $494
Net Sale: $4447

Enter the Movie Name: Journey to Mars
Enter the Adult Ticket Price : 45
Enter the Child Ticket Price: 54
Enter the Adult Sold Ticket: 4
Enter the Child Sold Ticket: 54
Enter the Total Ticket Sold: 5
Enter the Percetage Gross: 10
The Data is Added Successfully You Want to Read the Data on console Y or N: N

Data is added successfully you can check

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ROLL NO: 20P-0165

The end