TECH NINJAS

WELCOME TO

PROJECT REPORT OF

COMPUTER ALGORITHM

AND COMPLEXITY

CSE-2117

LEADING UNIVERSITY

LU STUDENTS HELP DESK

PREPARED FOR

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Contents

1. Introduction

1.1 Motive.

2. Leading University Students Help Desk

1.1. Bus Schedule.

1.2. Teachers Information.

1.3. Cr Information.

1.4. Other Activities Club Information.

3. Methodology

1.1 Functions used.

1.2 Designing and Implementations.

4. Others

1.1. Tic Tac Toe Game.

1.2. Quiz.

5. Output Analysis

6. Team work/ Team member contribution

7. Future Scope

Introduction: Leading University Students Help desk is a compiler based project which will help student to get necessary information at one place.

Motive: The main motive of this project is to solve the common problems of every student face on a campus. From a first semester students to last semester, there are some problems on regarding information such as bus Schedule, Teachers information, Cr information and other activities like different club information. So we tried to solve those common problem by using this project. So users can get the necessarily information on bus schedule, teachers information, CR information and other activities like different club information.

2. LEADING UNIVERSITY STUDENT HELP DESK

1.1. Pseudocode of Bus Schedule.

```
Ifstram file;
File.open(Bus Schedule);
If(file is open){
While(file!=end of file){
Print : Line;
}
}
Else
{
Print :File is not open;
}
```

1.2. Pseudocode of Teachers Information.

```
Ifstram file;
File.open(Teachers Information);
If(file is open){
While(file!=end of file){
Print : Line;
}
        }
        Else
        {
        Print :File is not open;
        }
```

1.3. Pseudocode of CR Information

```
Ifstram file;
File.open(CR Information);
If(file is open){
While(file!=end of file){
Print : Line;
}
        }
        Else
        {
        Print :File is not open;
        }
```

1.3. Pseudocode code of other club activities information.

```
Ifstram file;
File.open(club Information);
If(file is open){
While(file!=end of file){
Print : Line;
}
}
Else
{
Print :File is not open;
}
```

METHODOLOGY

Methodology is define as the system of technique that used by users in program**.**

Some used of Methodology is discuss below.

File:

A file is an object that stores data. When a program is terminate, the entire data is lost. Storing in a file will preserve your data even if the program terminates. So we used file in this project to store the bus time, teachers name and contact information, CR name and contact information, club name and contact information, tic tac toe game and quiz game data so that users can easily get the information they need.

Function:

A function is a block of code which only runs when it is called. You can pass data, known as parameters, into a function. Functions are used to perform certain actions, and they are important for reusing code: Define the code once, and use it many times.

Built-in function is used in program. Built-in function is used to make program clean. User can easily get particular function by calling the built in function.

In this project built-in function is used for every particular information like function for bus, teachers, cr,, game etc.

Designing and Implementations.

Three function is used to design this program.

Description is given below.

1.System ("CLS") Function: This function is used to clear the screen, not only clear also used to refresh the screen. We used to to clear the previous

Page When we move to next page.

2.gotoXY Function: The function gotoxy is mainly used to move the cursor on monitor screen very simply where it desired . To perform the function we need "conio.h" header file and it takes two parameters like gotoxy (int a , int b) . Where (a , b) is the position where we want to place the cursor . In these project it is used to move different menu from left to middle of the console.

3.System(“color , _”): This function is used to change the background and text color. we used in every information especially used in quiz when answer is wrong background color change to red, same when answer become right it change to green color.

4.Others

1.1. Tic Tac Toe Game.

This game was made for entertainment purpose. It is a very popular game. It is actually a two player game.

A player can chose between two symbol with his opponent by using “X" and “O"". If the first player chose “X" then second player have to use “O". If a player marks any of the 3x3 square with his symbol “X" or “O" by doing horizontally or vertically or diagonally draw a straight line wins the game. In case, if no can create straight line with his symbol, the game results a tie. So there are three possible results – a player wins, his opponent wins or it’s a tie.

1.2. Quiz Game.

This is a simple quiz game which is made in C++ programming language for entertainment purpose for the users.

In this game, the questions are about basic knowledge about computer science. The game design is user friendly. Simple and easy to play.

The user can input their name and press continue to play the game. There are total ten questions and four option for chose the right answer. The right answer will be shown on the screen. After answering all the question total score will be calculated and will show on the screen.

5. Output Analysis

The output of project describe below.

Fig-01

The main menu from all function called

Fig:-02

Teacher Information menu where all teachers functioned called

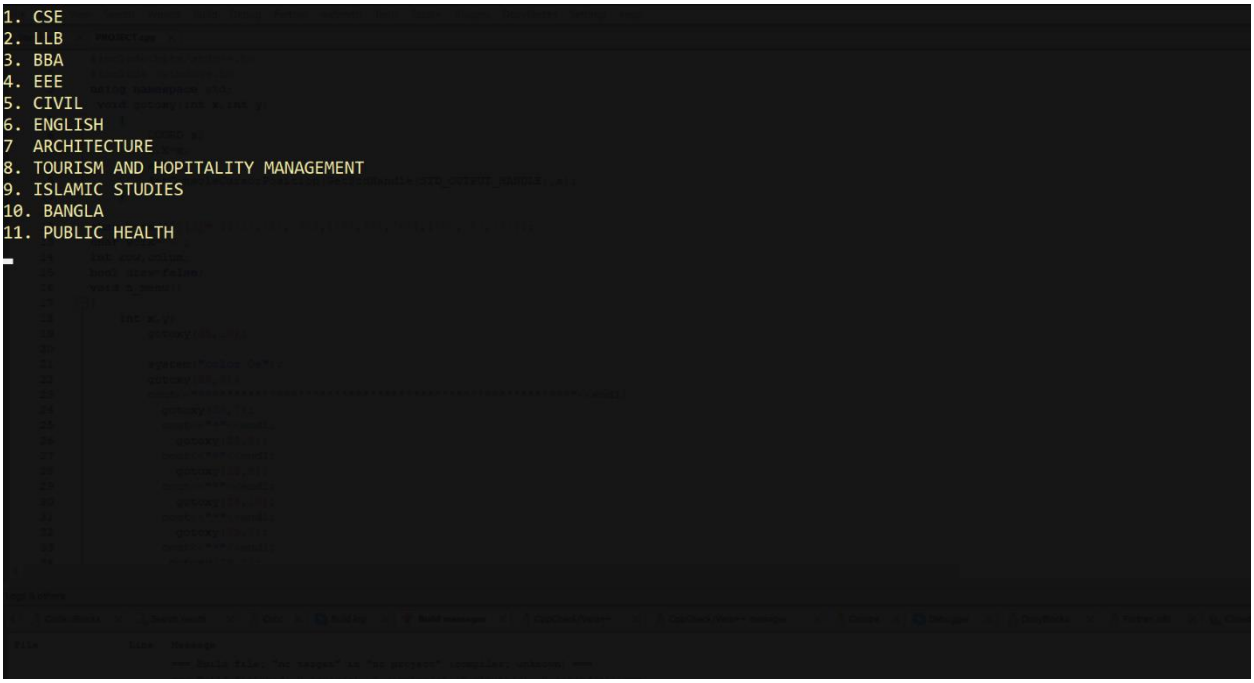


Fig:-03

Output of CSE department teacher, all department teacher information are included in the project.

Fig:-04.

Menu of other activities club

Fig:- 05.

Only one club information is given rest of all are included in this project

```
1. Their Objectives Are:
-- Give basic idea of computer,programming & many more.
-- Represent our university & our department throughout the whole country with the help of computer related events or program.
-- Develop students skills of Computer & communication.
-- Arrange Programming,gaming etc contest.

2. Selected Committee(Current):
 ........................
3.  Advisor: Mr. Minhazul Haque Bhuiyan
4. Co-Advisor: Md. Saidur Rahman
 ........................
5. President: Mustafizur Rahman Choudhury.
 ******************
.....................
6. General Secretary: Khairul Islam Siam.
*******************

PRESS 0 TO BACK MENU
```

Fig:-06.

Game of Tic Tac Toe

```
fun of game


      Player1 [X]
      Player2 [O]

               |     |
            1  |  2  |  3
          _____|_____|_____
               |     |
            4  |  5  |  6
          _____|_____|_____
               |     |
            7  |  8  |  9
               |     |


      Player1 [X] turn:
```

Fig:-07.

The output showed match is draw, if any one win or lose the output will be like player1 win or player1 loose

Fig:-08.

One question from quiz is displayed below.

Fig:-09

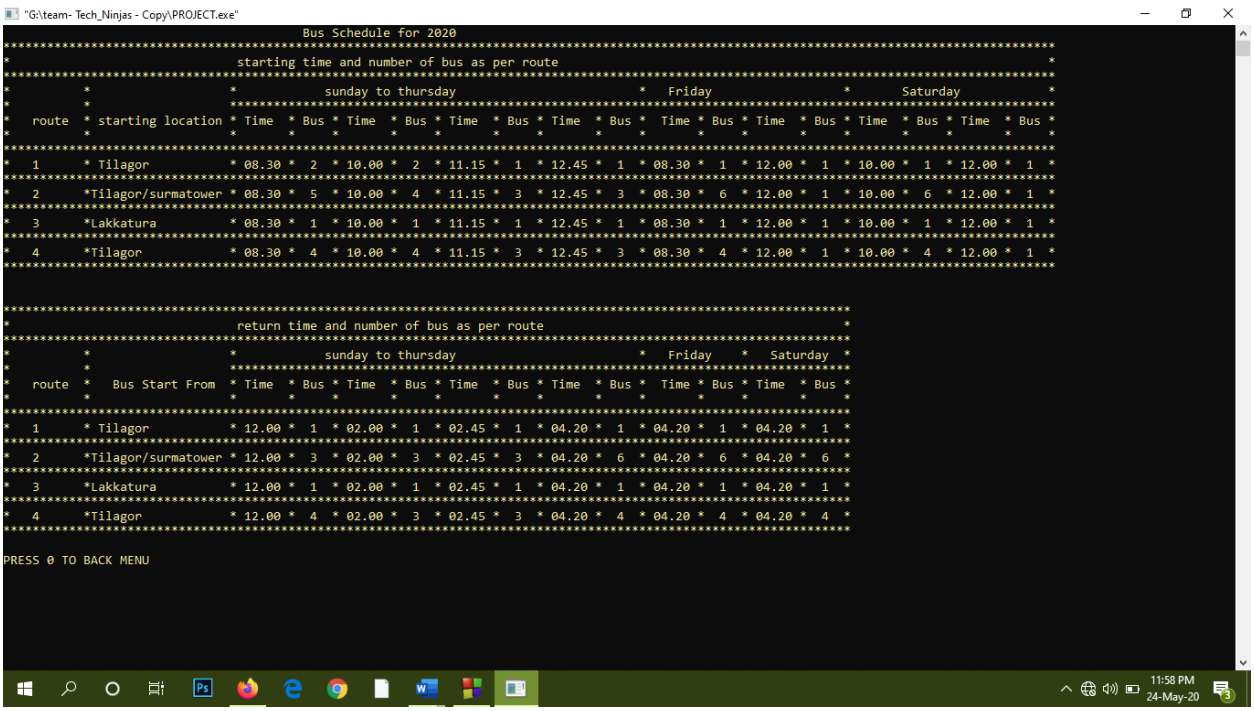
If the contestant give the correct answer the output will like above , background will change to green

Fig:-10.

If The answer become wrong the background turn to red and display like below

Fig:-11.

Bus schedule of leading university will available in our project.



6. Team work/ Team member contribution.

- **First general meeting**: 14/03/2020
- **Second general meeting**: 16/03/2020
- **Third meeting (online)**: 18/03/2020
- **Decisions taken in third meeting.**

Team Work:

We all have different ideas. But at a point, we all want to do LU Student Help Desk project because it was very relatable to our everyday life. We tried our best to divide every work among us. It was great pleasure to do team work for this project as it was our first project. We learn many things together by doing this project.

Team Members:

1. **Mahed Ahmed Chowdhury- 1912020053.**
2. **Raisa Marzana Chowdhury- 1912020063.**
3. **Apurbo Deb Nath- 1912020073.**
4. **Jarin Tasnim Mahi- 1912020046.**
5. **Alock Deb- 1912020084.**

Menu: The whole console of menu was done by **Mahed Ahmed Chowdhury**.

File management: Firstly the file was created by **Apurbo Deb Nath** for storing information. Then we divided every file work as we planned.

▪**Bus Schedule:**

Bus Schedule information file was done by **Mahed Ahmed Chowdhury**.

▪ **Teachers information:**

Department of BBA, LLB and Bangla teachers information file was done by **Raisa Marzana Chowdhury**.

Department of EEE and Civil teachers information file was done by **Jarin Tasnim Mahi**.

Department of Hospitality and Tourism Management and Islamic Studies teachers information file was done by **Alock Deb**.

Department of CSE and Architecture teachers information file was done by **Mahed Ahmed Chowdhury**.

Department of English and Public health teachers information file was done by **Apurbo Deb Nath**.

▪ CR information:

Batch(41-47) CR information file was done by **Mahed Ahmed Chowdhury**.

Batch(48-53) CR information file was done by **Raisa Marzana Chowdhury**.

▪ Other activities club information:

Orpheus and LUPS(Leading University Photography Society) information file was done by **Raisa Marzana Chowdhury**.

LUSSC(Leading University Social Service Club) and LUCC(Leading University Cultural Club) information file was done by **Jarin Tasnim Mahi**.

Banned Community information file was done by **Alock Deb**.

LUSC(Leading University Sports Club) information file was done by **Mahed Ahmed Chowdhury**.

LUCC(Leading University Computer Club) information file was done by **Apurbo Deb Nath**.

Gotoxy and Coloring_: GotoXY and Coloring was done by **Mahed Ahmed Chowdhury**.

Quiz Game: The quiz game idea and it was done by **Raisa Marzana Chowdhury** for entertainment purpose.

The gotoxy and colouring was done by **Mahed Ahmed Chowdhury**.

Tic tac toe Game: The tic tac toe game idea and it was done by **Alock Deb**.

Report Writing: We all were a part of this report writing (except Alock Deb he is out of network), as we tried to divide every work among us.

Reference

We watched a lecture from YouTube to get clear idea about files.

1.https://send.firefox.com/download/62edf4a26caf78c8/#1aGc2zDtHjw3KjbDuqD7Dw

7.Future Scope

There is always a room for improvement. Similarly this project can be improved further. There are many things in this project which can be expanded on a larger scale.

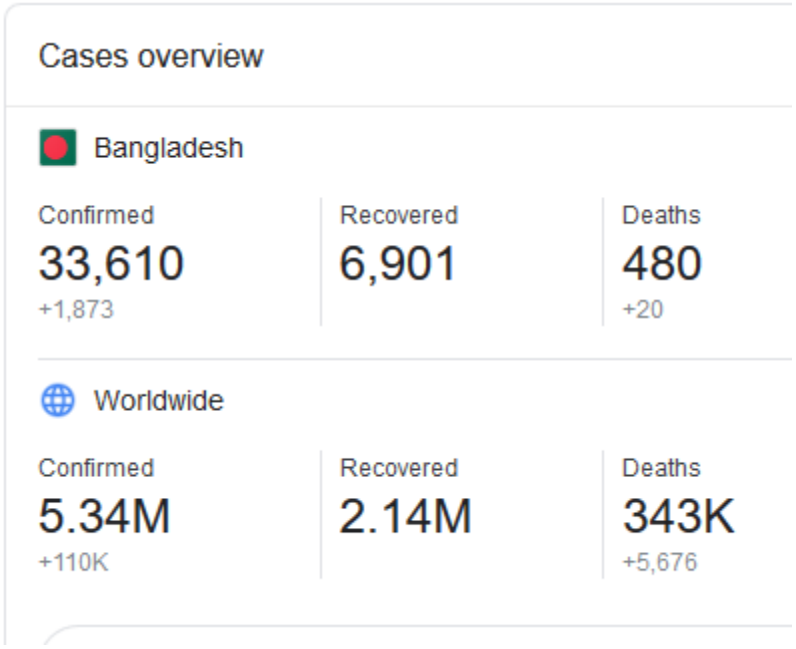
Some more research need to be done to know more resources and information.

Additional information which could be added to this project such as:

- Class routine
- Exam routine
- Important notice update
- Mid and final term result

And finally, we the **Team Tech Ninja**'s praying to the Almighty to make us free from the dangerous **CORONAVIRUS** . The whole world has stopped . One possible way to keep ourselfe safe and that is "Stay home,Stay safe".

Here is the update of 24/5/2020 :



THANK YOU.