

UNIVERSITY SCHOOL OF INFORMATION COMMUNICATION AND TECHNOLOGY

**Summer Internship Project Report**

C++ PROGRAMMING

Undertaken at

Name: Ayush Rawat Roll No.: 00716403221

Course: Bachelor of Technology Branch: Computer Science



|  |  |
| --- | --- |
| S. No. | Content |
| 1. | Declaration |
| 2. | Acknowledgement |
| 3. | Organization’s Profile |
| 4. | Overview |
| 5. | Introduction To Project |
| 6. | Screenshots |
| 7. | Conclusion |
| 8. | Bibliography |
| 9. | Certificate of Completion |



I, Ayush Rawat, a student of Computer Science, in University School of Information, Communication & Technology, Dwarka hereby declare that the work presented in this project in CodSoft was undertaken from August 2023 - September 2023 .

The matter embodied in this project report has not been submitted by me or anybody else to any institution for award of any other degree or diploma except to University School of Information, Communication & Technology, for the fulfillment of the requirements for the award of degree of Bachelors of Technology.

Ayush Rawat 00716403221



I would like to express my sincere gratitude to everyone who contributed to my successful completion of the C++ internship at CodSoft.

Firstly, I would like to extend my deepest thanks to Codsoft for offering me this valuable internship opportunity. Their guidance, support, and encouragement throughout the program were invaluable. They helped me improve my skills and knowledge significantly.

It has been the most rewarding and motivational experience for me. It has truly been a transformative experience.

The projects I've worked on during this internship have been instrumental in reaching my goal of successfully completing this journey. The challenges I've faced during my internship have helped me develop problem-solving skills, resilience, and a strong work ethic.

These invaluable experiences have not only enriched my professional growth but have also left me feeling well-prepared to excel in both my career and personal pursuits moving forward.

Finally, I am deeply grateful to my family and friends for their unwavering support and encouragement. Their belief in me helped me stay motivated and focused throughout the internship.

Thank you to everyone who made this internship a truly enriching and unforgettable experience.





**CodSoft** are IT services and IT consultancy that specializes in creating innovative solutions for businesses. They are passionate about technology and believe in the power of software to transform the world. Their internship program is just one of the ways in which we are investing in the future of the industry.

At **CodSoft**, they believe practical knowledge is the key to success in the tech industry. Their aim is to help students lacking basic skills by offering hands-on learning through live projects and real-world examples. Their team consists of industry experts who are dedicated to equipping interns with the knowledge and skills needed to succeed in their careers. Their foster an inclusive and supportive environment that encourages learning, growth, and creativity.



C++ programming stands as a versatile and influential language renowned for its efficiency, flexibility, and wide-ranging applications. Originating as an extension of the C language, C++ incorporates key features like Object Oriented Programming (OOP) principles, enabling developers to create modular, reusable code structures. Known for its robust performance, C++ is often the language of choice for system-level programming, game development, and high-performance applications. The inclusion of the Standard Template Library (STL) further amplifies C++'s capabilities, providing a rich set of pre-built classes and functions that enhance productivity.

During the internship period, I was provided with three projects. It was to be created using C++ and had to be submitted within a month.



This project report outlines the implementation of three different C++ projects: Calculator and Number Guesser, a Movie Ticket Booking System, and Institute Management system. The aim was to showcase proficiency in implementation of codes in C++ language and using file handling.

Project Details:

# Word Count and Number Guesser:

A simple word count program was made in this which allows us to count the number of words present in a text file. Number Guesser was another program in which a number is randomly taken and we have to guess that number in minimum possible tries. These projects were given to check basic C++ knowledge.

# Movie Ticket booking system:

In this a project was made which allows you to read and write data from the files which are being created and maintained through the C++ program at runtime. A person can choose his destination from available options and then book his ticket in the program. The file type ‘.csv’ was used to store and fetch data.

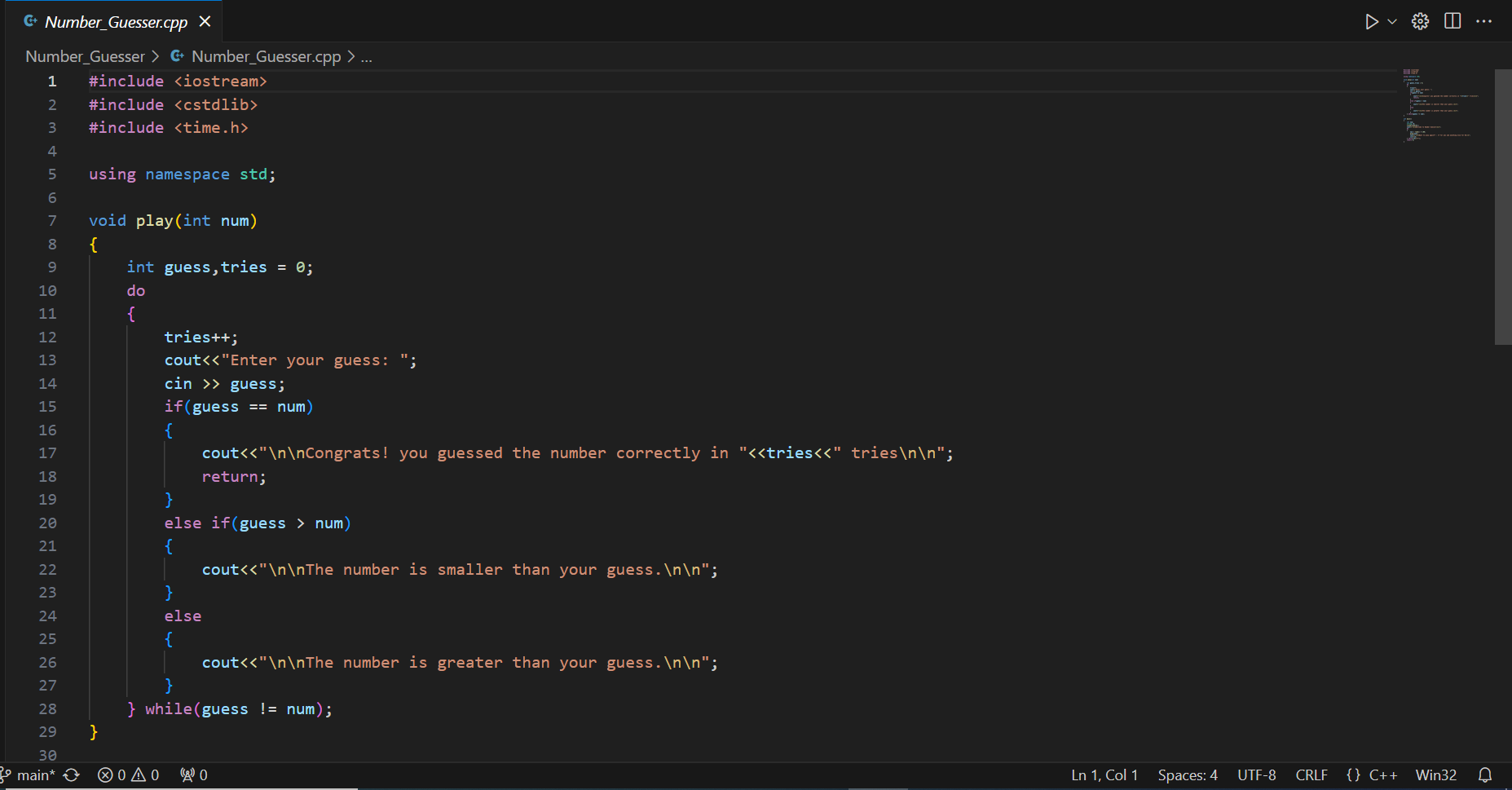
# Institute Management system:

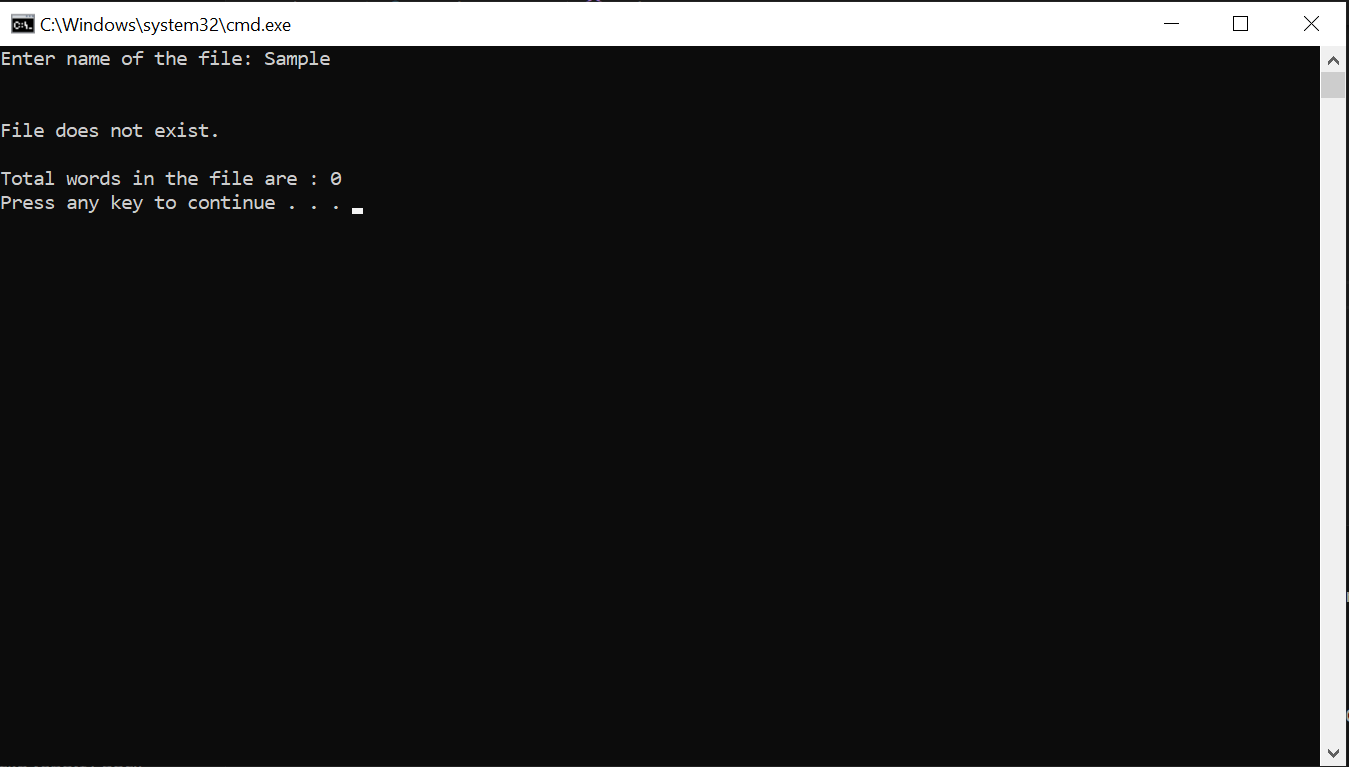
In this a whole system for an institute/coaching center was built. Different classes were made for different functionalities and for storing the data effectively. In this reading and writing from Binary files was learnt and used. The program was for the Receptionist/Administrator of the institute.

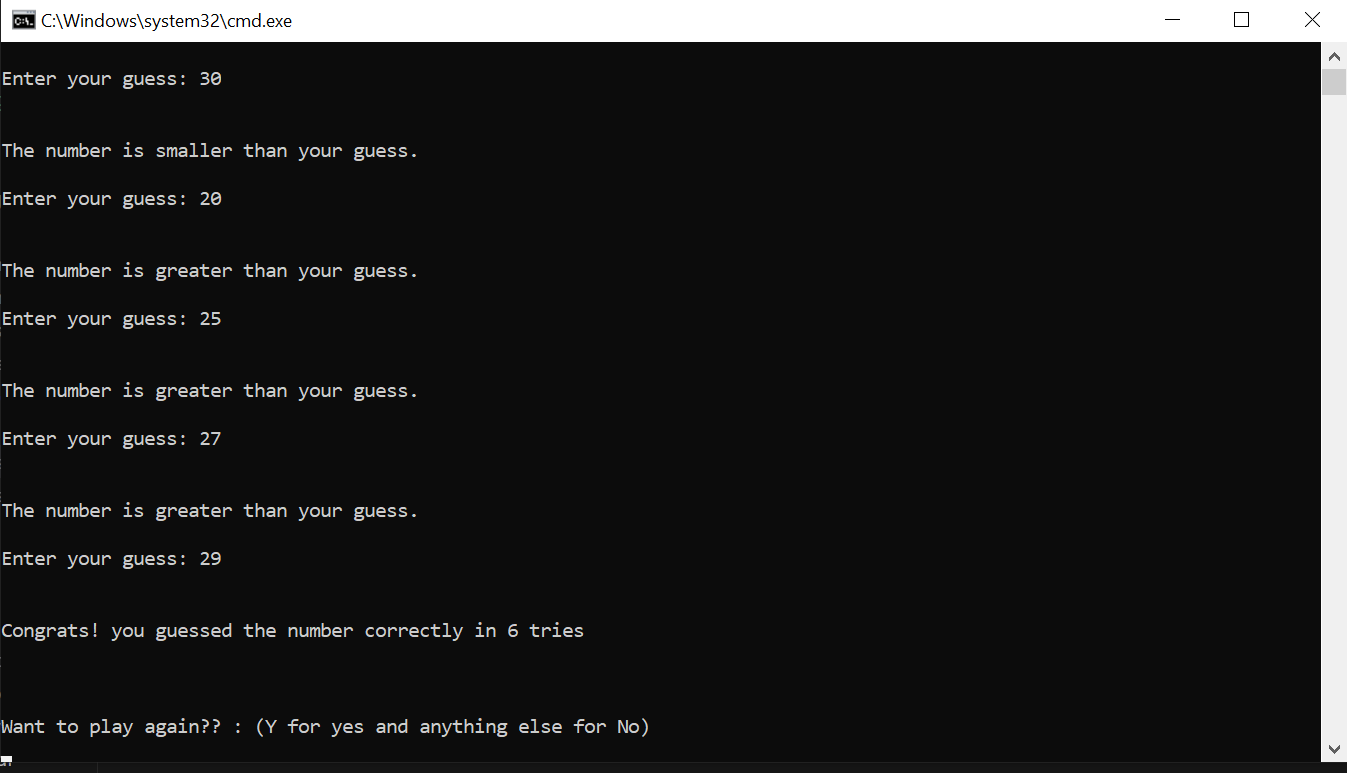


1. Word Count and Number Guesser







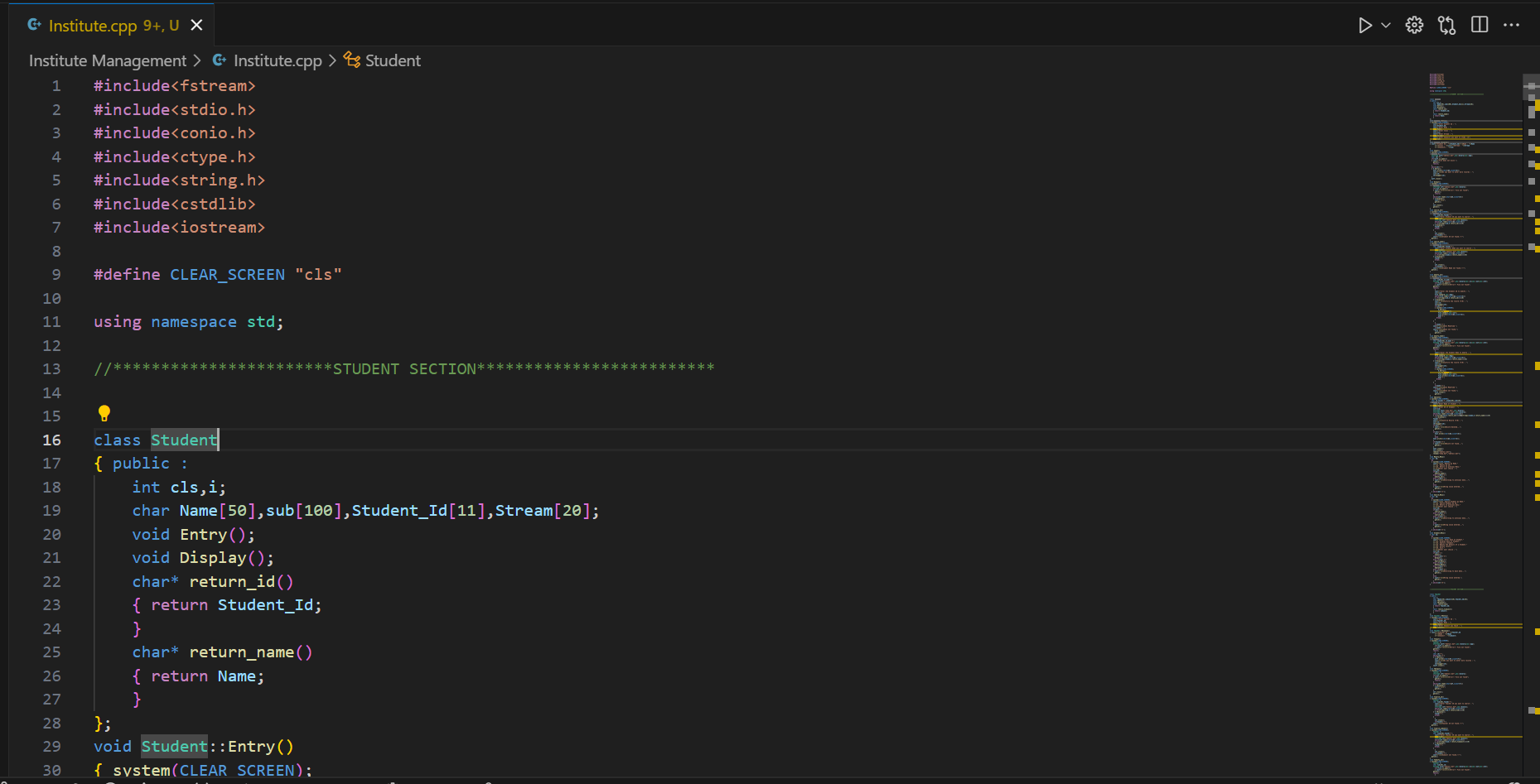


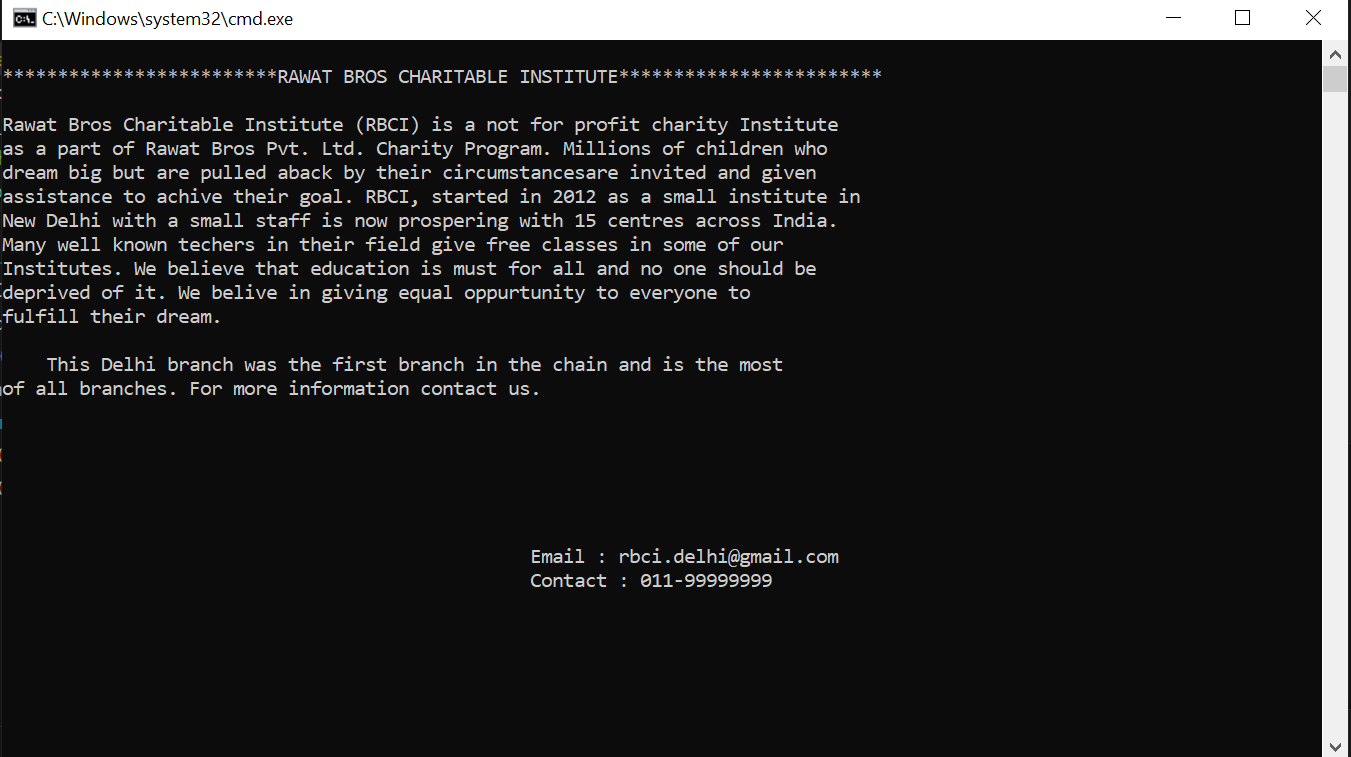
2. Movie Ticket Booking System





3. Institute Management System





Repository Link

Code Repository: <https://github.com/>Ayush-S-Rawat/CodSoft



My summer internship at Codsoft was a rewarding and enriching experience that provided me with valuable insights into the world of coding. Looking ahead, I am excited to expand my knowledge and delve deeper into the world of coding. My commitment to mastering best practices and staying abreast of the latest trends will fuel my journey.I am grateful for the opportunity to learn from experienced professionals and apply my skills to real world projects. I am confident that the knowledge and skills gained during this internship will be instrumental in my future career.



[www.geeksforgeeks.org](http://www.geeksforgeeks.org)

[www.w3schools.com](http://www.w3schools.com)

<https://www.youtube.com/playlist?list=PLDzeHZWIZsTryvtXdMr6rPh4IDexB5NIA>

[www.learncpp.com](http://www.learncpp.com)

