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| C++ PROGRAM  TO TAKE ATTENDENCE Of CLASSROOM  Name: Aneeq Ahmed Zahid  Department: Computer Science  Roll#: F23BDOCS1M01169  Section: 3M – 1st Semester  University: The Islamia University of Bahawalpur | | |
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| Summary This attendance software is a C++ based software designed to automate and streamline the attendance tracking process in a classroom setting. This report provides a detailed overview of the system, its proposed methodology, code explanation, and potential future enhancements. Table of Contents 1. Title Page  2. Summary Page  3. Table of Contents  4. Introduction  5. Proposed Methodology  6. Discussion and Code Explanation  7. Conclusion and Future Work  8. References | |

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| Introduction The traditional manual attendance method used Is time consuming and have some errors. This attendance software aims to automate attendance method using programming logics in C++. This will help us to create efficient and user-friendly system for recording and managing student attendance Proposed Methodology The proposed methodology involves the following key steps:   * Program Logic Design: Implementing Program Logic to store student information, attendance records, and other relevant data. * User Interface: Creating a user-friendly interface for both instructors and students to interact with the system. * Attendance Marking: Developing algorithms to mark and update attendance based on user input * Data Storage: Choosing appropriate methods for storing and retrieving attendance data efficiently. | |

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| Discussion and Code Explanation The C++ code for the attendance will be explained in detail in this section. This includes the implementation of functions, and algorithms used for various functionalities such as adding students, marking attendance, and generating reports. C++ CODE FOR TAKING ATTENDANCE | |
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| Details This C++ program serves as an attendance tracking system for a specific set of students. The code initializes arrays to store attendance information, with separate arrays for students marked present (present), students marked absent (absent), and user inputs (input). Additionally, variables presentcount and absentcount are initialized to keep track of the number of students marked present and absent, respectively.  The program starts by providing instructions to the user, indicating that they should input 'P' or 'p' for present and 'A' or 'a' for absent. Subsequently, a for loop is employed to gather attendance data for students within the range of roll no (1051 to 1075). For each student, the user is prompted to input their attendance status, and the code checks whether the input corresponds to 'P' or 'p' for present or 'A' or 'a' for absent. The attendance status is then stored in the respective arrays (present or absent), and the corresponding count is incremented accordingly.  Following this, attendance data for a specific student with Roll No 1086 is collected in a similar manner, updating the present or absent arrays and the respective count variables.  A subsequent for loop is employed to gather attendance data for students in the range of roll no’s (1152 to 1175), applying the same logic as before.  Finally, the program outputs the total number of students marked present and absent, providing a summary of the attendance data. The resulting counts are displayed to the user, offering a concise overview of the attendance status for the specified group of students. Conclusion and Future Work In conclusion, this C++ Code provides an effective solution for automating attendance tracking. Future enhancements could include integration with biometric systems, mobile applications for real-time updates, and additional features for data analysis | |

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| References 1.IDE:  <https://www.programiz.com/cpp-programming/online-compiler/>  2.Class Attendance Sheet THANK YOU ! | |