

SYMBIOSIS INSTITUTE OF TECHNOLOGY, PUNE

Constituent of Symbiosis International (Deemed University), Pune

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| **Assignment No.: 15** | |
| Course Name | Programming in C Lab |
| Name of Student | Faheemuddin Sayyed |
| PRN No. | 23070122196 |
| Branch | CSE |
| Class | C-1 |
| Academic Year & Semester | 2023-2024 & Semester 2 |
| Date of Performance | 19/02/2024 |
| Assignment Title (Full): | Write a C Program to demonstrate Structure pointer. |
| Theory:(Note: According to the assignment title, please write the background information as an introduction, then write the steps/logic/process/algorithm of the C program in the Journal Notebook, and add its screenshot in the below theory response.) | |
| **Theory Response:**   * Define two structures: Date for date components and Book containing book details and dates. * Implement Fine function to calculate overdue fine based on return and issue dates. * Implement Insert function to input book details and issue/return dates, then calculate fine using Fine function. * Implement Display function to print book details and fine. * In main, initialize books (b1, b2, b3) with predefined values and calculate fine using Fine. * Use Insert to input details for b4, calculate fine, and display all book details. | |
| Output:(Note: Execute the C program as per the assignment title, take an input code and output result screenshot with the date and time from your computer, and add its screenshot in the below output response.) | |
| **Output Response:** | |
| Conclusion:(Note: Write the key findings or outcome from this assignment, enlist their potential real-world applications in Journal Notebook, and add its screenshot in the below conclusion response.) | |
| **Conclusion Response:**  This program uses structure pointers to manage book records. It demonstrates functions to calculate fines based on issue and return dates, alongside functions to input and display book details. By organizing data into structures and using pointers, the program efficiently handles book records and associated operations. | |

Please note that assignment content can be readable.

**Faculty Name:**

Dr. Kanhaiya Sharma

Prof. Mahesh Arse

Prof. Sachin R. Gaikwad

Prof. Surabhi Thatte