



presents

# THE JOY OF CODING

October 21-29, 2021

V Semester Students

## Takeaways

- Hands on Experience with alternate solutions,
- e-certificate with grades printed on it

## DAY – 5

The objective of Day- 5 is to explore the

- Stack Operations

### Instructions and Guidelines

Students are strictly advised to

- type the code and analyze the working of each statement.
- try all the questions given for the day
- upload the source code and sample output into a folder specified by their mentor
- upload the files to their github account

### Question 1

Consider the following image



Doesn't it represent stack of books?

Each book has the credentials such as

Book\_Id (int)

Book\_Name (char)

Book\_Author (char)

Book\_Price (float)

You are required to arrange the books in such a way that, only the book at the top can be removed, and new book can be added only on to the top of the existing book stack. Imagine these books are to be kept in a box. The maximum number of books the box can contain is 5.

Write C routine to

- insert book
- remove book
- display the existing book details

The program should also check the following constraints.

- if the box is full then, books can't be added
- books can't be removed if the box is empty

**Note :** Use Structures. Enhance the program with pointer to structure concept (Introduce -> operator)

❖ **Happy Coding** ❖