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# 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 – 6

The objective of Day- 6 is to explore the

- Object Oriented Concepts

### 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

Write a C++ Program to implement a smart array. Class data members are array and size. Array size can be increased dynamically. Indexing on instance of class array must in turn index on the contents of array. Incrementing the array instance using indexing must increment the value stored in array. Note that before the program terminates, the array's memory must be de-allocated.

### Question 2

Write a C++ Program to implement a singleton pattern. Singleton pattern is one wherein there exists only one instance of any class.

❖ **Happy Coding** ❖