

**Modern Education Society's
Wadia College of Engineering, Pune**

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| NAME OF STUDENT: | CLASS: |
| SEMESTER/YEAR: | ROLL NO: |
| DATE OF PERFORMANCE: | DATE OF SUBMISSION: |
| EXAMINED BY: | EXPERIMENT NO: DSL A-01 |

TITLE : PERFORM VARIOUS OPERATIONS ON ARRAY

PROBLEM STATEMENT: In second year computer engineering class, group A student's play cricket, group B students play badminton and group C students play football. Write a Python program using functions to compute following: -

- a) List of students who play both cricket and badminton
- b) List of students who play either cricket or badminton but not both
- c) Number of students who play neither cricket nor badminton
- d) Number of students who play cricket and football but not badminton.

(Note- While realizing the group, duplicate entries should be avoided, do not use SET built-in functions)

OBJECTIVES:

1. To understand structure of Array.
2. To understand How Create, Display and perform various operations on array.

OUTCOMES:

1. To analyze the problems to apply suitable algorithm and data structure.
2. To discriminate the usage of various data structures in approaching the problem solution.
3. To understand concept of linear data structure

PRE-REQUISITES:

1. Knowledge of python programming
2. Knowledge of array

APPARATUS:

1. OS: Ubuntu 18.04.2 LTS
2. Processor: Intel® Core™ i7-4790S CPU
3. Graphics: GeForce GT 610/PCIe/SSE2
4. Storage: 400 GB
5. Text Editor: gedit
6. Compiler: python3
7. Terminal

QUESTIONS:

1. What is structure?
2. How to delete an element from array? (Explain logic)