



**Bharatiya Vidya Bhavan's**  
**Sardar Patel Institute of Technology**  
**(Autonomous Institute Affiliated to Mumbai University)**  
**[Knowledge is Nectar]**

**ACADEMIC YEAR 2021-22**

**Class:** F.Y. B. Tech. (Comp.)-B  
**Course:** PSIP

**Semester:** I  
**Course In charge:** Nikahat Mulla

***List of Problems for practice-Set IV (1D Arrays and 2D Arrays of numbers)***

Write a C program using user-defined functions:

1. WAPC to delete an element from a given list.
2. WAPC to swap the contents of two arrays.
3. C Program to Find the Second Largest & Smallest Elements in an Array
4. C Program to Put Even & Odd Elements of an Array in 2 Separate Arrays
5. C Program to Insert an Element in a Specified Position in a given Array
6. C Program to Merge the Elements of 2 Sorted Arrays
7. C Program to Split an Array from Specified Position & Add First Part to the End of the array
8. C Program to Generate Pascal Triangle 1 D Array
9. C Program to Print the Number of Odd & Even Numbers in an Array
10. C Program to Print All the Repeated Numbers with Frequency in an Array
11. C Program to Segregate 0s on Left Side & 1s on right side of the Array
12. C Program to Find 2 Elements in the Array such that Difference between them is Largest
13. WAP to convert a matrix to upper triangular
14. WAP to convert a matrix to lower triangular
15. WAP to check whether a matrix is diagonal or not.
16. WAP to find the sum of the elements of the left and right diagonals of a square matrix