# Government Engineering College, Patan
## Computer Science and Engineering Department
### Python with Data science

**Set-1 : Python Programming with Array, List**

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| Prog-1 | Python program to print all Prime numbers in an Interval. |
| Prog-2 | Python Program for n-th Fibonacci number |
| Prog-3 | Python Program for Sum of squares of first n natural numbers |
| Prog-4 | Python Program for array rotation |
| Prog-5 | Python Program to Split the array and add the first part to the end |
| Prog-6 | Python Program to check if given array is Monotonic <br><br>```<br>Input : 6 5 4 4<br>Output : true<br>Input : 5 15 20 10<br>Output : false<br>``` |
| Prog-7 | Python program to find second largest number in a list |
| Prog-8 | Python program to print even numbers in a list <br>**Example:** <br>**Input:** list1 = [2, 7, 5, 64, 14] <br>**Output:** [2, 64, 14] <br><br>**Input:** list2 = [12, 14, 95, 3] <br>**Output:** [12, 14] |
| Prog-9 | Program to print duplicates from a list of integers <br><br>**Examples :** <br>Input : list = [10, 20, 30, 20, 20, 30, 40, 50, -20, 60, 60, -20, -20] <br>Output : output_list = [20, 30, -20, 60] <br><br>Input :  list = [-1, 1, -1, 8] <br>Output : output_list = [-1] |
| Prog-10 | Count occurrences of an element in a list <br><br>Input : lst = [15, 6, 7, 10, 12, 20, 10, 28, 10] <br>    x = 10 <br>Output : 3 <br>10 appears three times in given list. <br>Input : lst = [8, 6, 8, 10, 8, 20, 10, 8, 8] <br>    x = 16 <br>Output : 0 |
| Prog-11 | Python program to find N largest elements from a list <br>Input : [4, 5, 1, 2, 9] <br>    N = 2 <br>Output :  [9, 5] <br>Input : [81, 52, 45, 10, 3, 2, 96] <br>    N = 3 <br>Output : [81, 96, 52] |