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**SCHOOL OF ENGINEERING & TECHNOLOGY**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

| **COURSE CODE**  **BCP318** | **COURSE TITLE**  **PYTHON PROGRAMMING** | **L** | **T** | **P** |
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**LIST OF EXPERIMENTS**

| **S.NO.** | **EXPERIMENT NAME** | **COURSE OUTCOME** |
| --- | --- | --- |
|  | [**Python program to add two numbers**](https://www.geeksforgeeks.org/python-program-to-add-two-numbers/) | **CO1** |
|  | [**Maximum of two numbers in Python**](https://www.geeksforgeeks.org/maximum-of-two-numbers-in-python/) | **CO1** |
|  | [**Python Program for factorial of a number**](https://www.geeksforgeeks.org/python-program-for-factorial-of-a-number/) | **CO1** |
|  | [**Python Program for simple interest**](https://www.geeksforgeeks.org/python-program-for-simple-interest/) | **CO1** |
|  | [**Python Program for compound interest**](https://www.geeksforgeeks.org/python-program-for-compound-interest/) | **CO1** |
|  | [**Python Program to check Armstrong Number**](https://www.geeksforgeeks.org/python-program-to-check-armstrong-number/) | **CO1** |
|  | [**Python Program for Program to find area of a circle**](https://www.geeksforgeeks.org/python-program-for-program-to-find-area-of-a-circle/) | **CO1** |
|  | [**Python program to print all Prime numbers in an Interval**](https://www.geeksforgeeks.org/python-program-to-print-all-prime-numbers-in-an-interval/) | **CO1** |
|  | [**Python program to check whether a number is Prime or not**](https://www.geeksforgeeks.org/python-program-to-check-whether-a-number-is-prime-or-not/) | **CO1** |
|  | [**Python Program to find sum of array**](https://www.geeksforgeeks.org/python-program-to-find-sum-of-array/) | **CO2** |
|  | [**Python Program to find largest element in an array**](https://www.geeksforgeeks.org/python-program-to-find-largest-element-in-an-array/) | **CO2** |
|  | [**Python Program for array rotation**](https://www.geeksforgeeks.org/python-program-for-program-for-array-rotation-2/) | **CO2** |
|  | [**Python Program for Reversal algorithm for array rotation**](https://www.geeksforgeeks.org/python-program-for-reversal-algorithm-for-array-rotation/) | **CO2** |
|  | [**Python Program to Split the array and add the first part to the end**](https://www.geeksforgeeks.org/python-program-for-split-the-array-and-add-the-first-part-to-the-end/) | **CO2** |
|  | [**Python Program for Find remainder of array multiplication divided by n**](https://www.geeksforgeeks.org/python-program-for-find-reminder-of-array-multiplication-divided-by-n/) | **CO2** |
|  | [**Python Program to check if given array is Monotonic**](https://www.geeksforgeeks.org/python-program-to-check-if-given-array-is-monotonic/) | **CO2** |
|  | [**Python program to interchange first and last elements in a list**](https://www.geeksforgeeks.org/python-program-to-interchange-first-and-last-elements-in-a-list/) | **CO2** |
|  | [**Python program to swap two elements in a list**](https://www.geeksforgeeks.org/python-program-to-swap-two-elements-in-a-list/) | **CO2** |
|  | [**Python | Ways to find length of list**](https://www.geeksforgeeks.org/python-ways-to-find-length-of-list/) | **CO2** |
|  | [**Python | Ways to check if element exists in list**](https://www.geeksforgeeks.org/python-ways-to-check-if-element-exists-in-list/) | **CO2** |
|  | [**Python program to check if a string is palindrome or not**](https://www.geeksforgeeks.org/python-program-check-string-palindrome-not/) | **CO3** |
|  | [**Python program to check whether the string is Symmetrical or Palindrome**](https://www.geeksforgeeks.org/python-program-to-check-whether-the-string-is-symmetrical-or-palindrome/) | **CO3** |
|  | [**Reverse words in a given String in Python**](https://www.geeksforgeeks.org/reverse-words-given-string-python/) | **CO3** |
|  | [**Ways to remove i’th character from string in Python**](https://www.geeksforgeeks.org/ways-to-remove-ith-character-from-string-in-python/) | **CO3** |
|  | [**Python | Check if a Substring is Present in a Given String**](https://www.geeksforgeeks.org/python-check-substring-present-given-string/) | **CO3** |
|  | [**Python – Extract Unique values dictionary values**](https://www.geeksforgeeks.org/python-extract-unique-values-dictionary-values/) | **CO3** |
|  | [**Create a list of tuples from given list having number and its cube in each tuple**](https://www.geeksforgeeks.org/python-program-to-create-a-list-of-tuples-from-given-list-having-number-and-its-cube-in-each-tuple/) | **CO4** |
|  | [**Python Program for Binary Search (Recursive and Iterative)**](https://www.geeksforgeeks.org/python-program-for-binary-search/) | **CO4** |
|  | [**Python Program for Linear Search**](https://www.geeksforgeeks.org/python-program-for-linear-search/) | **CO4** |
|  | [**Python program to read file word by word**](https://www.geeksforgeeks.org/python-program-to-read-file-word-by-word/) | **CO4** |
|  | [**Python program to read character by character from a file**](https://www.geeksforgeeks.org/python-program-to-read-character-by-character-from-a-file/) | **CO4** |
|  | **Python program to implement Single Level Inheritance.** | **CO5** |
|  | **Python program to implement function overloading.** | **CO5** |

**VALUE ADDED EXPERIMENTS**

| **S.NO.** | **EXPERIMENT NAME** | **COURSE OUTCOME** |
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|  | [**Different ways to clear a list in Python**](https://www.geeksforgeeks.org/different-ways-to-clear-a-list-in-python/) | **CO2** |
|  | [**Python | Reversing a List**](https://www.geeksforgeeks.org/python-reversing-list/) | **CO2** |
|  | [**Python program to find sum of elements in list**](https://www.geeksforgeeks.org/python-program-to-find-sum-of-elements-in-list/) | **CO2** |
|  | [**Python | Multiply all numbers in the list**](https://www.geeksforgeeks.org/python-multiply-numbers-list-3-different-ways/) | **CO2** |
|  | [**Python program to find smallest number in a list**](https://www.geeksforgeeks.org/python-program-to-find-smallest-number-in-a-list/) | **CO2** |
|  | [**Python program to find the sum of all items in a dictionary**](https://www.geeksforgeeks.org/python-program-to-find-the-sum-of-all-items-in-a-dictionary/) | **CO3** |
|  | [**Python | Ways to remove a key from dictionary**](https://www.geeksforgeeks.org/python-ways-to-remove-a-key-from-dictionary/) | **CO3** |
|  | [**Python counter and dictionary intersection example (Make a string using deletion and rearrangement)**](https://www.geeksforgeeks.org/python-counter-dictionary-intersection-example-make-string-using-deletion-rearrangement/) | **CO3** |
|  | [**Python program to Find the size of a Tuple**](https://www.geeksforgeeks.org/find-the-size-of-a-tuple-in-python/) | **CO3** |
|  | [**Python – Maximum and Minimum K elements in Tuple**](https://www.geeksforgeeks.org/python-maximum-and-minimum-k-elements-in-tuple/) | **CO3** |
|  | [**Python – Get number of characters, words, spaces and lines in a file**](https://www.geeksforgeeks.org/python-get-number-of-characters-words-spaces-and-lines-in-a-file/) | **CO4** |
|  | [**Python Program to merge two files into a third file**](https://www.geeksforgeeks.org/python-program-to-merge-two-files-into-a-third-file/) | **CO6** |
|  | [**Python program to reverse the content of a file and store it in another file**](https://www.geeksforgeeks.org/python-program-to-reverse-the-content-of-a-file-and-store-it-in-another-file/) | **CO6** |

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