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| 1 | Do the following using regular expressions:-   1. Find all occurrences of a word in a multiline string. The search must be case insensitive. Also find and display the starting index of each matched word in the input string. 2. Given a line of text find all characters other than vowels and space characters. 3. Given a list of strings find all strings that start with a digit or an underscore. |
| 2 | Given an input file which contains list of names, phone numbers and email-ids separated by spaces in the following format:-  Alex 80-23425525 alex234@yahoo.com  Emily 322-56775342 em\_44@gmail.com  Grace 20-24564555 softech\_grace@rediffmail.com  Phone number contains 3 or 2 digit area code and a hyphen followed by 8 digit number  Perform the following using regular expressions:-   1. Find all phone numbers having 4 consecutive 0s at the end. 2. Find all names having phone numbers with 3 digit area code. 3. Find the total number of people having Gmail id. 4. Find user name part of email id for all people whose name start with 'G' or 'E' and ends with 'y' 5. Find all names whose phone numbers are not in proper format. |
| 3 | Write a Generator function which gives the next prime number each time. Use this to find all prime numbers in a given range |
| 4 | Write an iterator (class) that returns numbers in the Fibonacci series for a given range.  If the range is 30, it should return 0 1 1 2 3 5 8 13 21 |

**PAP Week 7 Lab Assignments**