**Assignment – 6**

Q1. write a Python program to check if the input year is a leap year or not.

Q2. write a Program to display the Fibonacci sequence up to n-th term where n is provided by the user

Q3. write a Program to check if a string is palindrome or not

Q4. write a Program to sort alphabetically the words form a string provided by the user. [You can use split() method to split string into a list of words. ]

Q5. write a Program to Remove Punctuations from a String provided by the user

Q6. Write a Python program to find sequences of lowercase letters joined with a underscore.

Q7. Write a Python program to find the sequences of one upper case letter followed by lower case letters.

Q8. Write a Python program that matches a string that has an 'a' followed by anything, ending in 'b'.

Q9. Write a Python program that matches a word containing 'z', not at the start or end of the word.

Q10. Write a Python program to match a string that contains only upper and lowercase letters, numbers, and underscores.

Q11. Write a Python program where a string will start with a specific number.

Q12. Write a Python program to remove leading zeros from an IP address.

Q13. Write a Python program to check for a number at the end of a string.

Q14. Write a Python program to search the numbers (0-9) of length between 1 to 3 in a given string.

Q15. Write a Python program to search a literals string in a string and also find the location within the original string where the pattern occurs.

Q16. Write a Python program to find the substrings within a string.

**Sample text :** 'Python exercises, MachineLearning exercises, NLP exercises'

**Pattern :** 'exercises'

Q18. Write a Python program to extract year, month and date from an url.

Q19. Write a Python program to find all words starting with 'a' or 'e' in a given string.

Q20. Write a Python program to abbreviate 'Road' as 'Rd.' in a given string.