**Practical - Implementing programs using Strings.**

1. Write a program that takes username and PAN card number as input. Validate the information using isX function (eg: isdigit, isalpha etc) and print the details.

ASCII values of A – Z is 65 – 90 and ASCII value for a-z is 97-122

1. Write a program that encrypts a message by adding a key value to every character. (Eg: if key = 3 add 3 to every character. If character is ‘H’ add 3 to it (ascii value of H is 8 add 3 then 8+3=11 therefore ‘K’ is a replaced character for ‘H’)
2. Write a program that uses split () to split multiline string.
3. Write a program to generate Abecedarian series. (str1 = “ACDEF”, str2=” end”, your output should generate a list [Aend Cend Dend Eend Fend]
4. Write a program that accepts a string from user and redisplays the same string after removing vowels from it.
5. Write a program that finds whether a given character is present in a string or not. In case it is present it prints the index at which it is present. Do not use built – in find functions to search the character.
6. Write a program that counts the occurrences of a character in a string. Do not use built in function ‘count’.
7. Write a program to reverse a string.
8. Write a program to remove the characters which have odd index values of a given string.
9. Write a program to check whether a string is a palindrome is a palindrome or not.
10. Write a program to read a name and then display it in abbreviated form like David Johnson should be displayed as DJ.
11. Write a python command to print
    1. “hello world” as “Hello world”
    2. “hello world” as “Hello World”
    3. “hElLo WoRlD” as “HeLlO wOrLd”
    4. “hello world” as “Hello Friends”
12. Write a program to print two floating point numbers
    1. Upto two decimal places
    2. Upto two decimal places with sign
    3. With no decimal places
13. Write a program to print integers with zeros on the left of specified width.
14. Write a program to print integers with ‘\*’ on the right of specified width.
15. Write a program to display a number in left, right and center aligned of width 10.
16. Write a program to strip a set of characters from a string.
17. Write a program that removes leading and trailing spaces from a string.
18. Write a program to count the number of digits, upper case characters, lower case characters and special characters in a given string.
19. Write a python  program to get a string made of first 2 and last 2 characters from a given string.

**Practical - Implementing programs using written modules and Python Standard libraries.**