

**Department of Computer Applications**

**PESU**

**MCA III Sem**

**Python Programming**

**Assignment 1**

1. Check if two strings are anagrams of each other.
2. Create a simple calculator
3. Read a number n and Compute  $n+nn+nnn$
4. Form a New String where the First Character and the Last Character of the old string have been Exchanged
5. Remove spaces from a string
6. Create two sets of numbers and implement union, intersection, Set Difference, Symmetric Difference of the sets
7. Accept the radius and print the area and circumference of a circle
8. Accept a sequence of comma-separated numbers from user and generate a list and a tuple with those numbers.
9. Accept a filename and display the following "File name is ---- and file extension is ----"
10. Accept a list of colors and display the odd numbered indexed colors.
11. Accept the base and height of a triangle and compute the area.
12. Compute the Final amount of simple interest given principal amount, rate of interest, and a number of years.
13. Given weight and height calculate BMI ( $\text{weight}/(\text{height} * \text{height})$ )
14. Sort three integers without using conditions.
15. Concatenate two tuples
16. Create a tuple of two tuples.
17. Get a single string from two given strings, separated by a space and swap the first two characters of each string.
18. Change a given string to a new string where the second and last but one chars have been exchanged.
19. Accept a comma separated sequence of words as input and print the unique words in sorted form (alphanumerically).