

Python Assignment

1. WAP in python to find the root of a quadratic equation. Write proper messages and the roots if found.

2. Find GCD and LCM of a number.

3. WAP in python to print the series: 13, 16, 22, 24, 28, 36 ... n terms.

4. WAP to python to print the series: 13, 17, 25, 32, 37, 47 ... n terms.

5. Print the given series $1 + \frac{1 \times 2}{1+2} + \frac{1 \times 2 \times 3}{1+2+3} + \frac{1 \times 2 \times 3 \times 4}{1+2+3+4} \dots n$ terms

6. Print the following pattern

```
5
4 4
3 3 3
2 2 2 2
1 1 1 1 1
```

7. Print prime palindrome numbers in a list. Use user defined functions for prime number check and palindrome number check.

8. Find highest frequency number(s) of a list.

9. Delete all the Armstrong numbers of a list.

10. Rotate a list by n position to the right or left according to user choice.

11. Count and Print number of alphabets, vowels, consonants, uppercase, lowercase, digits, space, special characters, words in a string given by user.

12. Print longest word(s) of a string given by user. Do not use len() function.