

COLLEGE OF ENGINEERING, TRIVANDRUM

DEPARTMENT OF COMPUTER APPLICATIONS

PROGRAMMING LAB – 20MCA131 (S1 MCA)

LIST OF EXPERIMENTS

CYCLE - I

1. Write a python program to find the area of a circle.
2. Write a python program to convert temperature from Celsius to Fahrenheit.
3. Write a python program to swap two numbers without using temporary variables.
4. Write a python program to prompt the user for a list of integers. For all values greater than 100, store 'over' instead.
5. Write a python program to enter 2 lists of integers. Check (a) Whether lists are of same length (b) whether list sums to same value (c) whether any value occurs in both.
6. Write a python program to read a list of integers, create a list removing even numbers.
7. Write a python program to print out all colors from color-list1 not contained in color-list2.
8. Write a python program to sort the dictionary in ascending and descending order.
9. Write a python program to merge two dictionaries.
10. Write a python program to find gcd of 2 numbers.

CYCLE II

11. Write a python program to generate a positive list of numbers from a given list of integers using List comprehensions.
12. Write a python program to form a list of vowels selected from a given word using List comprehensions.
13. Write a python program to accept a file name from the user and print extension of that.

14. Write a python program to create a single string separated with space from two strings by swapping the character at position 1.
15. Write a python program to get a string from an input string where all occurrences of the first character are replaced with '\$', except the first character.[eg: onion -> oni\$n]
16. Write a python program to count the occurrences of each word in a line of text.
17. Write a python program to check whether a given year is a leap year or not.
18. Write a python program to check whether a given number is prime or not.
19. Write a python program to check whether a given number is Armstrong or not.
20. Write a python program to check whether a given string is palindrome or not.

CYCLE III

21. Write a python program to find the factorial of a number using functions.
22. Write a python program to generate Fibonacci series of N terms using functions.
23. Write a python program to display the given pyramid with step number accepted from user using functions.

Eg: N=4

1

2 4

3 6 9

4 8 12 16