

## Mock Practical Questions

1. Write a program in python to take string as an input and print whether its palindrome or not.

Write a program to demonstrate multiple inheritance to calculate sum of two numbers.

2. Write python program to create Scientific Calculator using GUI. (*The code must include use of class, Functions, Decent colors and Background.*)

3. Create a lambda function that takes a list of numbers as input and returns back a list of even numbers.(use Filter)

Create and open a file and make list of unique words in that file.

4. Given three sequences of numbers, write a lambda expression using map and zip functions, that will calculate element-wise maximum among these 3 sequences.

Write a program to demonstrate inheritance to calculate areas of various shapes.

5. Write a Python program to find the second lowest total marks of any student(s) from the given names and marks of each student using lists and lambda. Input the number of students, the names and grades of each student.

Write a Python program that will take input from the user about details of the new account in the bank. And then print the information of each account and the total amount in the bank. (Use Class & objects)

6. Write a program in python to input student details like student roll no, student name and marks in 5 subjects etc. and calculate the student grade based on student percentage and printing all details.(Use Class and Objects)

Write a Python program to find numbers divisible by nineteen or thirteen from a list of numbers using Lambda. If there are multiple students with the same grade then print each name

7. Write a program to implement stack data structure using Linked List in python using Last in first out technique.

Write a python program that takes text file as input and returns the number of words in the file.

## Mock Practical Questions

8. Write a program in python to demonstrate single inheritance to calculate cube of a number.

Write Python program to demonstrate Pandas Library

A. to select the specified columns and rows from a given data frame.

B. join the two given dataframes along rows and merge with another dataframe  
along the common column id.

9. Write python program to create database called **myclass**. The database will contain Students First\_name, Last\_name, Roll\_number and Address in the Object form. Define methods to perform different operations on database and demonstrate the same.

Write a python program to display Fibonacci series using recursion.

10. Write a program to insert a node in middle of Linked List.

Write a python program to generate 26 text files with the names A.txt, B.txt so on upto Z.txt.

11. Write Python program to demonstrate Image processing to plot histogram of an image

Write Python program to demonstrate Pandas Library

A. to select the specified columns and rows from a given data frame.

B. join the two given dataframes along rows and merge with another dataframe  
along the common column id.

12. Write Python program to demonstrate Image processing to split the color space planes and obtain the histograms

Write Python program to demonstrate Numpy Library

A. sort the elements in the given array

B. add rows and columns

C. multiply two matrices

13. Write a program to take string S as input and replace all vowels in it by \*. Print the modified string.

Write Python program to demonstrate Numpy Library

A. sort the elements in the given array

## Mock Practical Questions

B. add rows and columns

C. multiply two matrices