- 1. Write a program that accepts a string from the user and display the same string after replacing spaces with #.
- 2. Explain types of arguments in function with example.
- 3. Desoribe instance variable. static variable and local variables in python object oriented programming. Use suitable examples.
- 4. State the Difference between List and tuple. Explain with Example
- 5. Demonstrate lambda function with example
- 6. Create a class called AccountHolder with data attributes like acc number, balance, and typeOfAccount. The methods of the class should include
 - 1. getData() acc number, name, Balance.
 - 2.Calculate Intrest) to accept Rate of Interest from user and calculate interest on account balance and display it.
 - 3. Display the all account information
- 7. Write a program to Accept the file name from user and print the number of lines, 21 words and characters present in the given file?.
- 8. Illustrate CRUD operations in MongoDB with example state the difference between SQL Database and NoSQL Database.
- 9. Write a program to check whether entered file is exist or not and handle the -exception
- 10. Develop a python program to remove all the comments from .py file. Accept the File Name from User
- 11. Write a Python program to perform following operations on MongoDB Database. [S] Create Collection "Student"
 - 1. Insert 5 documnents in Collection STUDENT with fields Stud name, Stud mobile, Stud Class, Stud Age, Stud Marks
 - 2. Find the Student having age >25
 - 3. Increase Marks by 10%, for the Students having 2 Marks" between 30 to 39
 - 4. Update Mobile number for any one Student
 - 5. Display all Students in descending the order of Age.
- 12. Write a program to find the nth Fibonacci number using recursion
- 13. Write A program to demonstrate various ways of creating Thrcad in Python
- 14. Write a Python Program to Check the weather enter password is valid or NOT. The PasSword Should Satisfy the Following Criteria: Minimum length with 8 characters and contains at least 1 Uppercase letter, 1 Lower case letter I digit 0-9 and 1 Special character.
- 15. Explain Generators in Python with suitable example.
- 16. Write a Program for synchronization of threads. Accept the Nnumber from user [4] and print odd and even numbers from 0 to Nusing both the threads simultaneously
- 17. Write a Python program A) Write a Program for synchronization of threads. Accept the Nnumber from user and print odd and even numbers from 0 to Nusing both the threads simultaneously. 1. To remove all leading zeros' fom an IP address. Accept IP address from 2. To find all five characters long word in a string. Accept string from user
- 18. Explain Decorators in Python with suitable example
- 19. Explain NumPy indexing and slicing methods with examples.
- 20. Draw a graph using matplotlib and decorate it by adding various elements

- 21. Prepare the pandas data frame from csv file . Perform following operations on 1. Fill all NaN' Values with the mean of each colum on 2. Display a last 15 rows.
- 22. Explain Constructors in Python with example
- 23. Write a Program to illustrate following numpy array attributes/Functions. ndarray.shape np.identity0 np.arange) np.reval0
- 24. Explain Multilevel inheritance in python with suitable example.
- 25. Draw Line graph using matplotlib and decorate it by adding various elements. Use suitable data.
- 26. Write a Python program, to check the validity of a password given by

The password should satisfy following criteria:

Contain at least fletter between a and z

Contain at least 1 number between 0 and 9 il) Contain at least 1 letter between A and Z iv) Contain at least 1 character from \$, #, @

- v) Minimum length of password: 8
- vi) Maximum length of password: 20
- 27. Write a program for synchronization of threads using RLOCK. Accept the two numbers from user and calculate factorial of both numbers Simultaneonly
- 28. Draw bargraph using matplotlib and decorate it by adding various elements
- 29. What is NoSQL database? Compare SQL Vs NoSQL.
- 30. Write a program to find the sum of all Odd and Even numbers up to
- a number specified by the user
- 31. Draw line graph using matplot lib and decorate it by adding various elements . use suitable data
- 32. Explain multiple inheritance in python with suitable example