**GANPAT UNIVERSITY**

**U. V. PATEL COLLEGE OF ENGINEERING**

**B.Tech CE/IT Semester IV Practical list 2019-2020**

**2CEIT404: Python Programming**

**Practical-4: Lists and Tuples**

1. Explain difference between insert, append and extend operations on list. Write a program to create and initialize list with your name, enrollment number, age, branch and result. Perform insert, remove, update, append and extend operation on list.
2. Write a program to search an element, find maximum & minimum value from the list.

1. Using inbuilt function

2. Using for loop

1. Create a program that asks the user for a number and then prints out a list of all the divisors of that number.
2. WAP to sort element in list

1. In same list

2. Create sorted copy of original list & print both.

1. Take two lists, say for example these two:

a = [1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89]

b = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13]

and write a program that returns a list that contains only the elements that are common between the lists (without duplicates). Make sure your program works on two lists of different sizes.

1. Write a program which takes a comma separated string from user & store each string which separated by comma in list & display list.
2. Write a program to create and initialize the tuple. Also remove 3rd element from tuple.
3. Create a tuple with name courses and initialize it with JAVA, PHP, C#, Android. Insert two items HTML and Python at the 3rd position in tuple.