GANPAT UNIVERSITY

U.V. PATEL COLLEGE OF ENGINEERING

Prerequisites for Internet of Things lab experiment

2CE705/2IT705 : Internet of Things

B.Tech Semester: VII
Computer Engineering/ Information Technology

Academic Year: 2020 (Odd Sem.)

CE/IT Department

Python Programming

Implement following program using Python

1. Write a program to print following

"============================"
Your Name
Your Enrollment No.
Branch: CE/IT
Age:XX
Email:your mail ID
Mobile No: your No.
"============================"

2. Write a program to find the sum of digits of given number.
3. Write a program to check if number is prime or not.
4. Write a program that reads a number from 1 to 7 and Accordingly it should display Monday to Sunday.(using if...elif)
5. Write a console application to replace a substring with new substring.
6. WAP which takes five subject marks from user store in list, find average & display it on screen with appropriate message.
7. WAP which take one string as input convert it in list, reverse it & check for palindrome using list functions.
8. WAP which takes comma separated string from user & store each string which separated by comma in list & display list.
9. Write a user defined function to find Armstrong numbers within given range.
10. WAP which takes 4 arguments, representing name & scores of player from 3 judges. The function should determine and display the name, bottom, top, and average score.
11. WAP which takes user input to prepare hindi-english dictionary & print Content of dictionary in last.
12. Write a program which stores user inputted 5 students data (like enrollment No.,Name, Age,email) in text file & display it from file.
13. Write a program which stores user inputted 5 students' data (like enrollment No., Name, Age, email etc…) in sqlite database & display it by retrieving from database.

Do Registration in following website for IOT experiment and identify the APIs use

https://www.tinkercad.com/
www.thingspeak.com
www.mydevices.com
www.twillio.com
www.iot.eclipse.org
www.circuits.io

Download Following Application from Google Play Store

1. AMR_VOICE
2. Aurdroid
3. QRcode Reader

4. BlueTerm2
5. MyMQTT