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| Lab | | PROGRAMS | Date |  |
| LAB 1. | Understanding the basics, syntax and Framework of Python | 1. WAP to understand the basic arithmetic operations on Data types, strings, input functions and Formatting functions. 2. To input a number and display its type, hexadecimal value, octal value, and square root 3. WAP to display all the format specifiers in numbers and strings 4. WAP to type the version of python you are using 5. WAP to get help from Python console. 6. WAP to purposefully raise indentation error and correct it 7. WAP to try all escape sequences | 09/05/2022 |  |
| LAB 2. | Understanding the Basic Operations, operators and expressions in python | 1. WAP to calculate the area of a circle. 2. WAP to print digit at one’s place 3. WAP to calculate average of two numbers 4. WAP to compute the distance between two points 5. WAP to convert Fahrenheit to Celsius 6. To calculate the total money in piggy bank given the coins of Rs. 10, Rs. 5, Rs. 2 and Rs.1. 7. WAP to display student’s result based on 2 examinations, 1 sports event, and 3 activities conducted. Weightage of activity is 30%, sports 20% and exam 50%. Find total marks. 8. WAP to perform string concatenation, deletion, repetition, indexing, and slicing. | 13/05/2022 |  |
| LAB 3. | Introduction to lists, tuples and dictionaries | 1. WAP to create a list and perform all the built-in operation on the list. 2. WAP to create a tuple and perform all the built in operations 3. WAP to create a dictionary and perform all the built in operations | 20/05/2022 |  |
| LAB 4. | To understand various control structures in python | 1. To print the sum of digits of numbers 2. To print the reverse of a number 3. To print the factorial of a number 4. To print the common divisor of two numbers 5. To read a character until asterisk (\*) is encountered and count the number of uppercase,lowercase, letters and numbers entered by user 6. Write a program to create following pattern:   \*  \*\*  \*\*\*  \*\*\*\*  \*\*\*\*\*  \*\*\*\*  \*\*\*  \*\*  \* | 03/06/2022 |  |
| LAB 5. | To understand functions in python | 1. Write a function to generate a perfect number. 2. Write a function to return maximum value from a list 3. Write a function to print a list containing only even numbers 4. Write a function to remove the duplicate elements from the list and print the new list 5. Write a recursive function to print power of a number | 17/06/2022 |  |
| LAB 6. | To understand string operations in python | 1. WAP to accept a string and display changed case and title case 2. WAP to display the largest and smallest word from the string 3. WAP to accept two strings from the user and display the common words(Ignore the case) 4. WAP to accept the string and replace all the empty spaces with special characters 5. WAP to accept a string and display the ASCII value of each character. | 24/06/2022 |  |