LAB-1

1. WAP to calculate simple interest.
2. WAP to calculate area and perimeter of a circle.
3. WAP to calculate area of a triangle.
4. WAP to compute quotient and remainder.
5. WAP to convert degree into Fahrenheit and vice versa.
6. WAP to find the distance between two points in 2-D space.
7. WAP to print sum of n natural numbers.
8. WAP to print sum of square of n natural numbers.
9. WAP to get the distance from user into kilometer, and convert it into meter, feet, inches and centimeter.
10. WAP to get day, month and year from the user and print the date in the given format: 23-11-2024.

Solution=https://github.com/shrutizalariya/SEM-4/blob/main/Python%20Programming/Lab%20-%201/Python%20Programming%20-%20Lab%20-%201.ipynb

LAB-2(If….else)

1. WAP to check whether the given number is positive or negative.
2. WAP to check whether the given number is odd or even.
3. WAP to find out largest number from given two numbers using simple if and ternary operator.
4. WAP to find out largest number from given three numbers.
5. WAP to check whether the given year is leap year or not.
6. WAP in python to display the name of the day according to the number given by the user.
7. WAP to implement simple calculator which performs (add,sub,mul,div) of two no. based on user input.
8. WAP to read marks of five subjects. Calculate percentage and print class accordingly.
9. Three sides of a triangle are entered through the keyboard, WAP to check whether the triangle is isosceles, equilateral, scalene or right-angled triangle.
10. WAP to find the second largest number among three user input numbers.
11. WAP to calculate electricity bill based on following criteria. Which takes the unit from the user.

Solution= <https://github.com/shrutizalariya/SEM-4/blob/main/Python%20Programming/Lab%20-%202/Python%20Programming%20-%20Lab%20-%202.ipynb>

LAB-3(for and while loop)

1. WAP to print 1 to 10.
2. WAP to print 1 to n.
3. WAP to print odd numbers between 1 to n.
4. WAP to print numbers between two given numbers which is divisible by 2 but not divisible by 3.
5. WAP to print sum of 1 to n numbers.
6. WAP to print sum of series 1 + 4 + 9 + 16 + 25 + 36 + ...n.
7. WAP to print sum of series 1 – 2 + 3 – 4 + 5 – 6 + 7 ... n.
8. WAP to print multiplication table of given number.
9. WAP to find factorial of the given number.
10. WAP to find factors of the given number.
11. WAP to find whether the given number is prime or not.
12. WAP to print sum of digits of given number.
13. WAP to check whether the given number is palindrome or not
14. WAP to print GCD of given two numbers.

Solution= https://github.com/shrutizalariya/SEM-4/blob/main/Python%20Programming/Lab%20-%203/Python%20Programming%20-%20Lab%20-%203.ipynb

LAB-4(String)

1. WAP to check whether the given string is palindrome or not.
2. WAP to reverse the words in the given string.
3. WAP to remove ith character from given string.
4. WAP to find length of string without using len function.
5. WAP to print even length word in string.
6. WAP to count numbers of vowels in given string.
7. WAP to capitalize the first and last character of each word in a string.
8. WAP to convert given array to string.
9. Check if the password and confirm password is same or not.

In case of only case's mistake, show the error message.

1. Display credit card number.

card no. : 1234 5678 9012 3456

display as : \*\*\*\* \*\*\*\* \*\*\*\* 3456

1. Checking if the two strings are Anagram or not.

s1 = decimal and s2 = medical are Anagram

1. : Rearrange the given string. First lowercase then uppercase alphabets.

input : EHlsarwiwhtwMV

output : lsarwiwhtwEHMV

solutions=https://github.com/shrutizalariya/SEM-4/blob/main/Python%20Programming/Lab%20-%204/Python%20Programming%20-%20Lab%20-%204.ipynb

LAB-5(List)

1. WAP to find sum of all the elements in a List.
2. WAP to find largest element in a List.
3. WAP to find the length of a List.
4. WAP to interchange first and last elements in a list.
5. WAP to split the List into two parts and append the first part to the end.
6. WAP to interchange the elements on two positions entered by a user.
7. WAP to reverse the list entered by user.
8. WAP to print even numbers in a list.
9. WAP to count unique items in a list.
10. WAP to copy a list.
11. WAP to print all odd numbers in a given range
12. WAP to count occurrences of an element in a list.
13. WAP to find second largest number in a list.
14. WAP to extract elements with frequency greater than K.
15. WAP to create a list of squared numbers from 0 to 9 with and without using List Comprehension.
16. WAP to create a new list (fruit whose name starts with 'b') from the list of fruits given by user.
17. WAP to create a list of common elements from given two lists.

solutions= https://github.com/shrutizalariya/SEM-4/blob/main/Python%20Programming/Lab%20-%205/Python%20Programming%20-%20Lab%20-%205.ipynb

LAB-6(Tuple)

1. WAP to find sum of tuple elements.
2. WAP to find Maximum and Minimum K elements in a given tuple.
3. WAP to find tuples which have all elements divisible by K from a list of tuples.
4. WAP to create a list of tuples from given list having number and its cube in each tuple.
5. WAP to find tuples with all positive elements from the given list of tuples.
6. WAP to add tuple to list and vice – versa.
7. WAP to remove tuples of length K.
8. WAP to remove duplicates from tuple.
9. WAP to multiply adjacent elements of a tuple and print that resultant tuple.
10. WAP to test if the given tuple is distinct or not.

Solution= https://github.com/shrutizalariya/SEM-4/blob/main/Python%20Programming/Lab%20-%206/Python%20Programming%20-%20Lab%20-%206.ipynb