

PYTHON QUESTIONNAIRE

NOTE: IF YOU'RE NOT ABLE WRITE THE CODE JUST WRITE THE ALGORITHM

1. Write a python program to find all the solutions to the equation ($x + y + z = 10$).

- Example $x = 8$; $y = 2$, $z = 0$ likewise find all the possible solutions

2. Write a python program to take 5 names as input from the user and store it in a list. And remove if there are any spaces in the name, make the first part of the name uppercase, rest of the name lowercase, remove the last two letters, sort the list in ascending order and give the indexing to the name while printing.

- Example Input = Mahadev naiDU Parimi

Abhishek kumar

Output = 1. ABHISHEKkum

2. MAHADEVnaidupari

3. Write a python program to create calculator that perform arithmetic operations:

- Addition (+)
- Subtraction (-)
- Multiplication (*)
- Division (/)
- Modulus (%) $7 \% 2 = 1$
- Exponent (**) $7 ** 2 = 49$

Create function for each operation and take two numbers, operation from the user and print the answer.

- Example Input = 20

50

Mul

Output = $20 * 50 = 1000$

4. Write a python program to find all the prime numbers between a given range by user.

- Example Input = 1

10

Output = 2, 3, 5, 7

5. Write a python program to take 5 names, 5 numbers from user, store it a 2d array. And create a dictionary using the 2d array without using zip function, sort the array based on the value.

- Example Input = Mahadev

Abhishek

20

10

Output = {"Abhishek":10, "Mahadev":20}