

Lab Exercise – 3 (Functions)

Q.No.1 Write a Python function to find the Max of three numbers

Q.No.2 Write a function called **fizz_buzz** that takes a number.

If the number is divisible by 3, it should return "Fizz".

If it is divisible by 5, it should return "Buzz".

If it is divisible by both 3 and 5, it should return "FizzBuzz".

Otherwise, it should return the same number.

Q.No.3 Write a function called **showNumbers** that takes a parameter called **limit**. It should print all the numbers between 0 and limit with a label to identify the even and odd numbers. For example, if the limit is 3, it should print:

- 0 EVEN
- 1 ODD
- 2 EVEN

Q.No.4 Write a function that returns the sum of multiples of 3 and 5 between 0 and **limit** (parameter). For example, if limit is 20, it should return the sum of 3, 5, 6, 9, 10, 12, 15, 18, 20

Q.No.5 Write a function called **show_stars(rows)**. If **rows** is 5, it should print the following:

- *
- **
- ***
- ****
- *****

Q.No.6 Write a Python program to reverse a string.

Q.No.7 Write a Python function that accepts a string and calculate the number of upper case letters and lower case letters.

Q.No.8 Write a Python function that takes a number as a parameter and check the number is prime or not.

Note : A prime number (or a prime) is a natural number greater than 1 and that has no positive divisors other than 1 and itself.

Q.No.9 Write a Python function that checks whether a passed string is palindrome or not.

Note: A palindrome is a word, phrase, or sequence that reads the same backward as forward, e.g., madam or nurses run.

Q.No.9 Accept string from the user and display only those characters which are present at an even index

Q.No.10 Write a program to find the factorial of a number using functions.