



DEPARTMENT OF COMPUTER  
SCIENCE

FORMAN CHRISTIAN COLLEGE (A  
CHARTERED UNIVERSITY), LAHORE

LAB 12(C)

Name: \_\_\_\_\_ ROLL No. \_\_\_\_\_ Time Allowed: 90 min

It's an open books and open notes lab session. You CANNOT share your code with each other. You need to write code on MARS IDE, and once the tasks are completed, make sure to get them checked by the lab engineer in class timings. Any task not duly signed by the lab engineer will not be considered for grading. Upload your solution on Moodle.

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**Problem Statement 1 [10 Marks]**

Write a function called `is_prime` that takes an integer as input and prints an appropriate message if the number is prime (has no divisors other than 1 and itself), and False otherwise.

**Example:**

Enter an integer: 7

The number '7' is a prime number.

Enter an integer: 9

The number '9' is not a prime number.

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**Problem Statement 2 [10 Marks]**

Write a function called `count_vowels` that takes a string as input and returns the number of vowels (a, e, i, o, u) in that string.

**Example:**

Enter a string: hello world!

The word 'hello world!' contains 3 vowels.