

INTRODUCTION TO PROGRAMMING WITH PYTHON

DIPLOMA IN BUSINESS INFORMATION TECHNOLOGY

DBIT 1 – GROUP B

LAB 04 – FUNCTIONS

Instructions:

1. This lab work should be done in groups of 2 or 3 based on the seating arrangement in the lab.
 2. Listen to the Class Guidelines on how to submit your work.
 3. **Always use the simplest solutions that you have learnt in class to work your solutions.**
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Student Admission Number		Student Name
1.		
2.		
3.		

Question 1: Working with Lists– 10 Marks

1. Using Functions, write a program that takes a range of numbers from a users' input and lists all the numbers in the range as:
 - ☐ Prime Numbers are: _, _, etc.
 - ☐ Odd Numbers are: _, _, etc.
 - ☐ Even Numbers are: _, _, etc.

Hint: [the user should key in the numbers until zero is keyed in for the list to be formed.]

Question 2: Grading System – 10 Marks

2. Write a Python function *is_palindrome(word)* that takes a string as input and returns *True* if the input word is a palindrome (reads the same backward as forward), and *False* otherwise.
 - ☐ For example, *is_palindrome("radar")* should return *True*.

Hint: The user should key in the word