**Programming Fundamentals**

**Lab 07**

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**Topic: Functions**

**Faculty of Information Technology**

**UCP Lahore Pakistan**

**Question 1:** Write a C++ program that takes an integer number from user.Make two functions named odd(int) and even(int). These functions are supposed to check whether the entered integer is even or odd. You have to call even() function inside the odd() function if the number is even.

**Question 2:** Write a C++ program that takes marks from user out of 100.Make two functions named pass(int) and fail(int). These functions are supposed to print the grades with respect to marks. You have to call pass() function inside the fail() function if the marks are greater than 50.

If Average < 50 = ‘F’ Grade  
If Average >= 50 = ‘D’ Grade

If Average >= 70 = ‘C’ Grade

If Average >= 80 = ‘B’ Grade

If Average >= 90 = ‘A’ Grade

**Question 3:** Write a C++ program that takes a positive number from user.Make two functions named palindrome(int) and reverse().You have to call reverse() function inside the palindrome() function to find the reverse of a number and check whether the entered number is palindrome or not.

**Question 4:** Write a C++ program that takes a character (alphabet) from user.Make two functions named upper(char) and lower(char). These functions are supposed to convert uppercase alphabet to lowercase and vice versa. You have to call lower() function inside the upper() function if the alphabet is lowercase.

**Question 5:** Write a C++ program that takes two numbers from user. Make a function named zero() that has two integer arguments being passed by reference and sets the smaller of the two numbers to 0.

**Question 6:** Write a C++ program in which you have to initialize two arrays of size 5 and pass these arrays to function named printMax(). The function is supposed to print the maximum number from both arrays.

**Question 7:** Write a C++ program in which you have to initialize an array of size 5, enter marks of the students (Out of 100) in it and pass to function named print(). The function is supposed to print the marks of 5 students entered in an array.

**Question 8:** Write a C++ program that takes two numbers from user. Make a function named swapnum() that has two integer arguments being passed by reference and print the numbers after swapping.