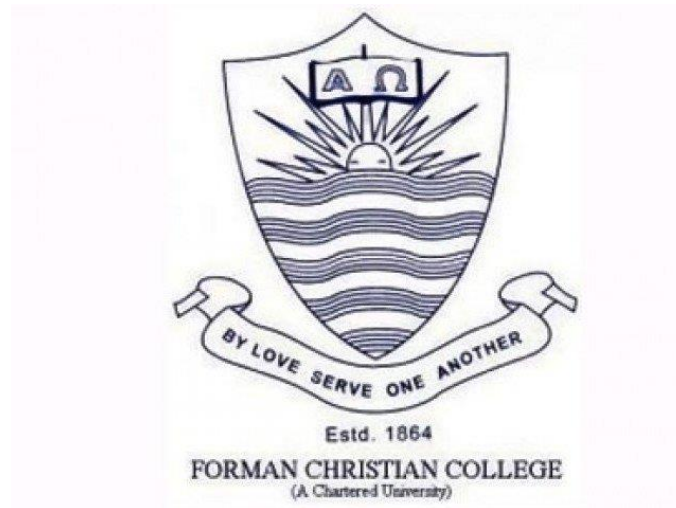# Programming II
Comp 111
Spring 2022

Department of Computer Science
Forman Christian College University

Lab 2
File Handling & Environment Diagram

Question #	Total Marks
Question 1	5
Question 2	5
Question 3	5
Question 4	5

Lab Problem

Question 1: Word count. A common utility on Unix/Linux systems is a small program called "wc." This program analyzes a file to determine the number of lines, words, and characters contained therein. Write your own version of wc. The program should accept a file name as input and then print three numbers showing the count of lines, words, and characters in the file.

Question 2:
Draw the environment diagram for the given code.

```python
def square1(x):
    return x*x

def square2(x):
    print(x*x)

a = square1(4)
b = square2(4)
```

Question 3:
Draw the environment diagram for the given code.

```python
def summation(n):
    total, k = 0, 1
    while k <= n:
        total, k = total + k*k*k, k + 1
    return total

result = summation (3)
```

Question 4:
Draw the environment diagram for the given code.

```
x = 5

def square(x):
    return x*x

def double(x):
    return square(x+1) - square(x) - 1

double(x)
```