**CSE 2110 - Advanced Programming Sessional**

ID:

**Mid Term Examination (Morning)**

**Date: 28/11/2024**

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| **Marks: 15** | **Time: 30 Mins** |

**Question 1**:(7 Marks)

Write a Python program that reads a text file named **input.txt** and does the following:

* Counts and displays the number of lines, words, and characters in the file.
* Replaces all occurrences of the word "**Python**" with "**Programming**" and saves the modified content to a new file named **output.txt**.

**Question 2**:(8 Marks)

Create a Python class named *BankAccount* with the following:

* An attribute *balance* initialized to 0.
* A method **deposit(amount)** to add the given amount to the balance. Ensure the amount is positive; otherwise, raise a *ValueError* with a message: "**Deposit amount must be positive."**
* A method **withdraw(amount)** to deduct the given amount from the balance. Ensure the balance is sufficient; otherwise, raise a *ValueError* with a message: **"Insufficient funds."**
* A method display\_**balance()** to print the current balance.

Write a Python program to:

* Create an instance of BankAccount.
* Allow the user to perform a sequence of deposit and withdrawal operations using a loop.
* Display the balance after each operation.

**Sample Input/Output**:

Deposit 1000

Balance: 1000

Withdraw 500

Balance: 500

Withdraw 600

Error: Insufficient funds.

Final Balance: 500