CS1004 - Object-oriented Programming (OOP)

Assignment # 3

Weightage: **04**

Due Date: **Sunday, May 22, 2022, 11:59 p.m.**

**Carefully read the following instructions!**

* It should be clear that your assignment would **not get any credit** if the assignment is submitted after the **due date**. **No** assignment will be **accepted after the due date**.
* Strict action will be taken if the submitted solution is copied from any other student.
* If you people find any mistake or confusion in the assignment (Question statement), please consult before the deadline. After the deadline no queries will be entertained in this regard.
* For any query, feel free to email at: **farah.sadia@nu.edu.pk**
* Submission: Submission will only be accepted through **GOOGLE CLASSROOM**.
* Submit all your codes with your Student ID and task number. **“K211234\_Q1”**. I'll not consider any .zip and .rar file. So **Avoid**.
* Every code should be with proper **commenting**.

**Question # 01:**

For the following task, you need to create two text files, namely, *input.txt* and *deifiniaz.txt*.

1. ***input.txt* should contain some arbitrary text, comprising letters and digits**
2. ***output.txt* should initially be empty. This file is going to store the output of your program**

**Task to be performed:**

Write a program that reads the contents of file input.txt, encrypts its contents and save the modified text to your output file i.e. output.txt.

**The encryption should be done according to these rules:**

***"Every digit should be converted to a capital letter in a way that digits are treated as sequence number of the alphabets e.g. 1 should become A, 2 should become B, 5 should become E, 11 should become K. Every digit less than 1 or greater than 26 should be converted to the letter Z."***

**Sample Input *(input.txt)*:**

**Hello this t3xt is 4 the 6060 1st try 25 31**

**Output (output.txt):**

**CDZAYZ**

**Note: This sample input is only for reference. Your program should work for any text given as input.**

**Question # 02:**

**Just Follow the following video tutorial for windows application. Make the project. Me and TA will call viva.**

**https://www.youtube.com/watch?v=zfz49gjnjcY&t=7464s**