**Montgomery College**

**CMSC 203**

**Assignment 3**

Class: CMSC203 CRN XXXX

 Program: Assignment 3 Design

Instructor: **farnaz.eivazi**

 Summary of Description: (This Program Can encrypt or decrypt words)

 Due Date: 03/23/2022

 Integrity Pledge: I pledge that I have completed the programming assignment independently.

 I have not copied the code from a student or any source.

Student: Vishwa Dewatha Pejjalage

|  |
| --- |
| **CryptoManager** |
| -LOWER\_BOUND:char  -UPPER\_BOUND:char  -RANGE:int |
| +stringInBounds(plaintext:String):Boolean  +encryptCaesar (plaintext:String,key:int):String  +decryptCaesar(encryptedText:String,key:int):String  +encryptBellaso (plaintext:String, bellasoStr:String):String  +decryptBellaso (encryptedText:String, bellasoStr:String):String  +Check(Array:char[])char[] |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Input text | Input Key | Encrypted (method1) | Encrypted (method2) | Decrypt (method1) | Decrypt (method2) |
| HELLO | CMSC | KR\_OR |  | HELLO |  |
| HELLO | 9 |  | QNUUX |  | HELLO |
| BYE | SMSC | U&X |  | BYE |  |
| BYE | 6 |  | H\_K |  | BYE |

**Make sure your tests cover all the possible scenarios.**