

Cryptography and Computer Network Security (0105410)

Project	Second Semester 2021
---------	----------------------

Student ID									
Student Name									

Due: April 12th, 2021

Question #	Course Learning Outcomes (CLO)	Total Mark	Student Mark
1	CLO 3, 4	10	
		10	

Instructions:

1. Read these instructions and the questions carefully.
2. Do not forget to write your name and your student id.
3. ***This is Not a group project. Plagiarism will not be tolerated.***
4. Draw figures and tables (if any) neatly using rulers.
5. This cover page, the questions, and your solutions must all be included in a single file. Multiple files for the project will not be accepted.
6. A project without this cover page's filled student names and IDs will not be accepted.
7. Your single-file project must be uploaded to Moodle. Emailing your project or submitting hard copies will not be accepted.

The purpose of this project is to familiarize the student with Symmetric Block Encryption and DES through the Implementations of Simplified DES (SDES)

You are to develop an implementation of SDES encryption and decryption algorithm using python. You have to develop two GUIs that will allow the exchange of encrypted messages and the subsequent decryption and display of those messages. The GUIs can be developed and tied to the SDES implementations using any python Interface. The GUI should allow the user to enter the key to be used, a text message to be sent, and see any received, decrypted messages.

IMPORTANT: Plagiarism will not be tolerated! Groups that copy from other groups will both receive a mark of zero without warning. Changing minor points here and there does not mean you have NOT copied; this is also considered plagiarism.

This is an implementation nature project. Meaning you may refer to the Internet, slides, books, etc. In this regard, we are referring (Not copy-paste) to other sources from which we used their material with proper citations (i.e. references). So, be cautious when you used other sources material by doing the following:

- No copy-paste is allowed. All submissions will be tested on Turnitin.
- When you want to use some other resources, make sure to re-write it, reference it in your report, and if you MUST copy-paste (in case of definitions), you need to used quotations and citations.

Good Luck!