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ID: 148830

**Activity 2.1**

Please complete the exercise. This activity has a value of twenty (20) points. You will need to upload a Word document showing the process you used to complete the activity in Blackboard. You will have only one opportunity to complete the activity. The deadline for the question can be found in "Tools" located in "Calendar" in the Blackboard platform.

Use the following key and algorithm to encrypt and decrypt message:

Algorithm: Replace each letter by its alphabetic counterpart to the right by a number of spaces.

Key: Determine the number you want to employ (key).

For example, if is use the key = 2, being that a = 1, b = 2, c = 3, then 1+2=3, then a = c

hello = jgnnq

**Answer:**

Chosen key: *13*

Original message: *Cybersecurity is very important in day to day life.*

Encryption process: *Each letter is replaced by the letter* ***13 places after it.***

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| N | O | P | Q | R | S | T | U | V | W | X | Y | Z | A | B | C | D | E | F | G | H | I | J | K | L | M |

Encrypted message: PLOREFRPHEVGL VF IREL VZCBEGNAG VA QNL GB QNL YVSR

Decryption process: *Each letter is replaced by the letter* ***13 places before it.***

Decrypted message: *Cybersecurity is very important in day to day life.*