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**Exercises on Encryption**

1. Use the following details to encrypt the following plaintext. **(5 points)**

* **Alphabet**: 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
* **Plaintext**: reject virus now
* **Cipher**: = Plaintext – Key2
* **Key**: 2
* **Ciphertext**: nafayp renqo jks

1. Use the following details to encrypt the following plaintext. **(5 points)**

* **Alphabet**: 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
* **Plaintext**: process it
* **Cipher**: = Plaintext + (Key \* Key2)
* **Key**: 3
* **Ciphertext**: qspdftt ju

1. Use the following details to encrypt the following plaintext. **(5 points)**

* **Alphabet**: 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
* **Plaintext**: defragment the hard drive
* **Cipher**: = Plaintext – Key2
* **Key**: 4
* **Ciphertext**: nopbkqwoxd dro rkbn nbsfo

1. Use the following details to decrypt the following ciphertext. **(5 points)**

* **Alphabet**: 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
* **Plaintext**: shut down server
* **Cipher**: = Plaintext + Key3
* **Key**: 2
* **Ciphertext**: apcb lwev amzdmz

1. Use the following details to decrypt the following ciphertext. **(5 points)**

* **Alphabet**: 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
* **Plaintext**: sign out
* **Cipher**: = Plaintext - Key0
* **Key**: 6
* **Ciphertext**: rhfm nts

1. Use the following details to decrypt the following ciphertext. **(5 points)**

* **Alphabet**: 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
* **Plaintext**: he went awol
* **Cipher**: = Plaintext + (Key – 23)
* **Key**: 10
* **Ciphertext**: jg ygpv cyqn