**Cipher practice**

**You have a plaintext =Instruments and a key =Monarchy. Complete the steps for encryption process.**

1. Complete the Generated Key Square (5\*5).

Answer:

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

1. The plaintext is split into pairs of two letters (digraphs). Show that in the bellow table

Answer:

Plain text = **Instruments == (“INSTRUMENTSX”) = to make them a pair we added X**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| IN | ST | RU | ME | NT | SX |

1. The ciphertext after applying the Playfair steps

Answer:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| GA | TL | MZ | CL | RQ | XA |

Cipher text: GATLMZCLRQXA