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JHU EP 606.206 - Introduction to Programming Using Python

Module 11: Hill Cipher

```
Key used --------→
([[19, 8, 4],
[3, 12, 7]])
```

```
Key used --------→
([[7, 8],
[11, 11]])
```

```
Key used --------→
([[5, 15],
[4, 12]])
```

```
Attempting hill cipher...
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The matrix is not a square.
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Attempting hill cipher...
Plaintext: ATTACKATDAWN
Plaintext column vectors: [array([[ 0],
       [19]]), array([[19],
       [ 0]]), array([[ 2],
       [10]]), array([[ 0],
       [19]]), array([[3],
       [0]]), array([[22],
       [13]])]

Ciphertext: WBDBQCWBVHYV
Ciphertext column vectors: [array([[22],
       [ 1]]), array([[3],
       [1]]), array([[16],
       [ 2]]), array([[22],
       [ 1]]), array([[21],
       [ 7]]), array([[24],
       [21]])]

Plaintext: ATTACKATDAWN
Plaintext column vectors: [array([[ 0],
       [19]]), array([[19],
       [ 0]]), array([[ 2],
       [10]]), array([[ 0],
       [19]]), array([[3],
       [0]]), array([[22],
       [13]])]

Attempting hill cipher...
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The determinant of the key = 0
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```