Cipher

Language: Python

Goal of these project is a program that can encrypt and decrypt a given massage.

We had to carry out such a matrix-based ciphering software, using the following process to encrypt:

- Transcript the key into numbers using the ASCII table
- Convert the numbered key into a square matrix, the smallest possible size, and filling the lines first
- Transcript the clear message into numbers using the ASCII table
- Convert the numbered message into a matrix; its number of columns should fit the key matrix size and its number of lines should be as small as possible
- Multiply the 2 matrices, and write the answer linearly to get the encrypted message

Usage:

```
USAGE
./103cipher message key flag
DESCRIPTION
message a message, made of ASCII characters
key the encryption key, made of ASCII characters
flag 0 for the message to be encrypted, 1 to be decrypted
```

Example: