```
main.py
                                                                    Save
                                                                               Run
                                                                                          Shell
 1 keyMatrix = [[0] * 3 for i in range(3)]
                                                                                      ≜ Ciphertext: POH
 2 messageVector = [[0] for i in range(3)]
 3 cipherMatrix = [[0] for i in range(3)]
 4 def getKeyMatrix(key):
 5
        k = 0
 6 *
        for i in range(3):
 7 -
            for j in range(3):
                keyMatrix[i][j] = ord(key[k]) % 65
 8
 9
                k += 1
10 • def encrypt(messageVector):
11 -
        for i in range(3):
12 -
           for j in range(1):
                cipherMatrix[i][j] = 0
13
14 *
                for x in range(3):
15
                    cipherMatrix[i][j] += (keyMatrix[i][x] *
16
                                           messageVector[x][j])
                cipherMatrix[i][j] = cipherMatrix[i][j] % 26
17
18 → def HillCipher(message, key):
19
        getKeyMatrix(key)
20 *
        for i in range(3):
21
            messageVector[i][0] = ord(message[i]) % 65
22
        encrypt(messageVector)
23
        CipherText = []
        for i in range(3):
24 *
            CipherText.append(chr(cipherMatrix[i][0] + 65))
25
26
        print("Ciphertext: ", "".join(CipherText))
27 - def main():
        message = "ACT"
28
29
        key = "GYBNQKURP"
30
        HillCipher(message, key)
31 - if __name__ == "__main__":
32
        main()
```