

رمز گذاری و رمز گشایی اطلاعات Practice:

In [1]:

```
1 Code = {
2     'a': '!',
3     'b': 'v',
4     'c': '6',
5     'd': '(',
6     'e': 'w',
7     'f': '1',
8     'g': ']',
9     'h': 'A',
10    'i': '=',
11    'j': '?',
12    'k': 'N',
13    'l': '[',
14    'm': '@',
15    'n': '-',
16    'o': '/',
17    'p': '#',
18    'q': '2',
19    'r': '%',
20    's': '*',
21    't': '+',
22    'u': '3',
23    'v': 'r',
24    'w': 'y',
25    'x': '4',
26    'y': '&',
27    'z': ')',
28    '.': 'U',
29    ' ': '_',
30    'A': '2',
31
32 }
```

In [2]:

```
1 # encode
2
3 X = "my love reyhane"
4 Y = ""
5
6 for i in X:
7     for j in Code:
8         if i == j:
9             Y += Code[i]
10
11 Y
```

Out[2]: '@&_[/rw_%w&A!-w'

```
In [3]: 1 # decode
2
3 Z = ""
4 for i in Y:
5     for j in Code:
6         if i == Code[j]:
7             Z += j
8 Z
```

Out[3]: 'my love reyhane'

رمز گذاری و رمز گشایی کلمات مهم درون متن : Practice

```
In [4]: 1 Code2 = {
2     "python": "*)7R",
3     "AI": "(:)",
4     "C#": "J&5",
5     "java": "9%#_"
6 }
7
8 Code2
```

Out[4]: {'python': '*)7R', 'AI': '(:)', 'C#': 'J&5', 'java': '9%#_'}

```
In [5]: 1 # encode
2
3 X = "python and C# programming is good. Of course, java is not bad either."
4
5 for i in X.split():
6     for j in Code2:
7         if i == j:
8             X = X.replace(i, Code2[i])
9
10 X
```

Out[5]: '*)7R and J&5 programming is good. Of course, 9%#_ is not bad either.'

```
In [6]: 1 # decode
2
3 #X = "python programming and C# are good."
4 Y = X
5
6 for i in Y.split():
7     for j in Code2:
8         if i == Code2[j]:
9             Y = Y.replace(i, j)
10
11 Y
```

Out[6]: 'python and C# programming is good. Of course, java is not bad either.'

