```
close all; clearvars; clc
```

# CONVERSION OF CHAR MESSAGE INTO BIT STREAM AND BACK (v.1)

bin2char less performing (for-loop needed)

```
in_msg = 'ciao'
binary = reshape(dec2bin(in_msg, 8).'-'0',1,[])
str = char(bin2dec(reshape(char(binary+'0'), 8,[]).'));
out_msg = str(1);
for j=2:length(str)
    out_msg = strcat(out_msg ,str(j));
end
out_msg
fprintf(" -------\n");
```

```
in_msg =

    'ciao'


binary =

  Columns 1 through 13

     0     1     1     0     0     0     1     1     0     1     1     0     1

  Columns 14 through 26

     0     0     1     0     1     1     0     0     0     0     1     0     1

  Columns 27 through 32

     1     0     1     1     1     1


out_msg =

    'ciao'

 -------
```

# CONVERSION OF CHAR MESSAGE INTO BIT STREAM AND BACK (v.2)

bin2char more performing (no for-loop needed)

```
in_msg = 'vkn rules!'
```

```
binary = reshape(dec2bin(in_msg, 8).'-'0',1,[])
str = char(bin2dec(reshape(char(binary+'0'), 8,[]).'))'
```

```
in_msg =

    'vkn rules!'
```

```
binary =

  Columns 1 through 13

     0     1     1     1     0     1     1     0     0     1     1     0     1

  Columns 14 through 26

     0     1     1     0     1     1     0     1     1     1     0     0     0

  Columns 27 through 39

     1     0     0     0     0     0     0     1     1     1     0     0     1

  Columns 40 through 52

     0     0     1     1     1     0     1     0     1     0     1     1     0

  Columns 53 through 65

     1     1     0     0     0     1     1     0     0     1     0     1     0

  Columns 66 through 78

     1     1     1     0     0     1     1     0     0     1     0     0     0

  Columns 79 through 80

     0     1
```

```
str =

    'vkn rules!'
```

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