**Python Strings Toolbox**

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| --- | --- | --- |
| **Function** | **Result** | **Notes:** |
| word = "Canada"  print(**len**(word)) | 6 |  |
| print("q"**\*10)** | qqqqqqqqq |  |
| "a b c d e f"**.split**(" ") | ['a', 'b', 'c', 'd', 'e', 'f'] |  |
| list("abcdef") | ['a', 'b', 'c', 'd', 'e', 'f'] |  |
| "abracadabra"**.count**("a") | 5 |  |
| "Jelly Beans".**upper()** | JELLY BEANS |  |
| "Jelly Beans".**lower()** | jelly beans |  |
| "Jelly Beans".**find**("y") | 4 |  |
| "Jelly Beans".**replace**("e", "o") | Jolly Boans |  |
| word = "Jelly Beans"  print(word**[0:4]**) | Jell |  |
| word = "Jelly Beans"  print(word**[4:]**) | y Beans |  |
| word = "Jelly Beans"  print(word**[6]**) | B |  |
| word = "Jelly Beans"  print(word**[-1]**) | s |  |
| word = "Jelly Beans"  print(word**[3:9:2]**) | l e |  |
| word = "Jelly Beans"  print(word**[10:5:-1]**) | snaeB |  |

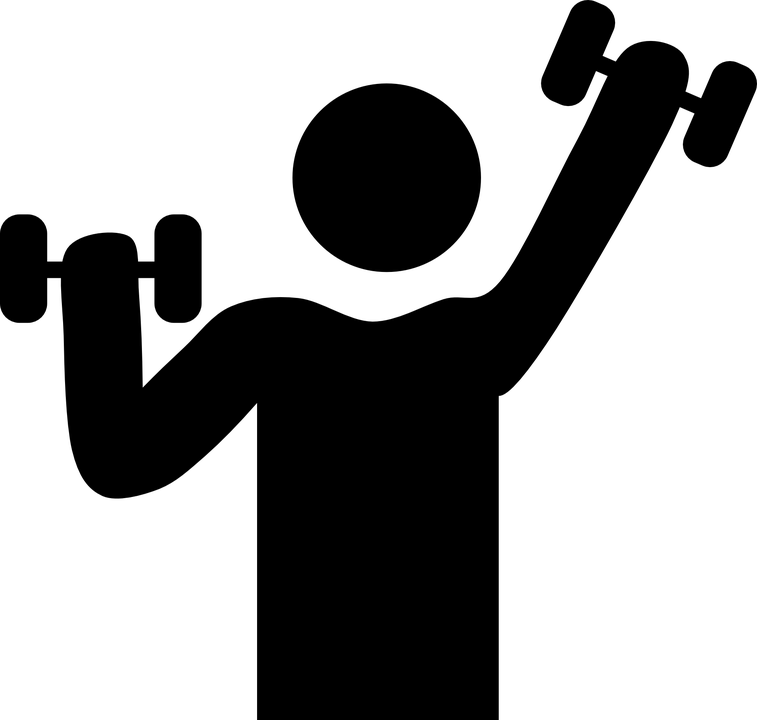
Also note:

**for k in "Jelly Beans":**

print(k) #k is each letter

**String Exercises**

Ask the user for a word/phrase, and then do each of the following to it. An example for each is given.

Enter a word or phrase:

**>abracadabra**

* Print the word in UPPER and lower, together:

ABRACADABRAabracadabra

* Determine if the word or phrase is an email address:

abracadabra is not an email address

* Count all "a"'s (include upper and lower case)

There are 5 a's in abracadabra

* Remove all "a"'s

brcdbr

* Reverse the word

arbadacarba

* Rotate the word left 3 characters (see example)

acadabraabr

* Rotate the word right 5 characters (see example)

dabraabraca

* Swap the even indexed characters with the odd indexed characters

baaracadrba

* Rearrange the letters into alphabetical order

aaaaabbcdrr

* Determine if the word is a palindrome

abracadabra is not a palindrome

* Make a box with the word (across, down, reversed, up)

arbadacarba

b r

r b

a a

c d

a a

d c

a a

b r

r b

abracadabra