

3.7: Functions in Python Worksheet (Question 2) Walkthrough

So, the first thing we need to do is construct the pseudocode for the question:

OUTPUT enter words to be made into acronym

INPUT words entered by user

ASSIGN to variable (acronym\_string)

SPLIT sentence into separate words

ACCESS first letter of first word

ASSIGN to variable (first\_letter)

ACCESS first letter of second word

ASSIGN to variable (second\_letter)

ACCESS first letter of third word

ASSIGN to variable (third\_letter)

CONCATENATE three letters

ASSIGN to variable (acronym)

OUTPUT acronym

We can now use this pseudocode to produce functioning code:

| **Pseudocode** | **Functioning Code** |
| --- | --- |
| OUTPUT enter words to be made into acronym  INPUT words entered by user  ASSIGN to variable (acronym\_string) | acronym\_string = input(“Please enter the words you want to convert to an acronym”) |
| SPLIT sentence into separate words | acronym\_words = acronym\_string.split() |
| ACCESS first letter of first word  ASSIGN to variable (first\_letter) | first\_word = acronym\_words[0]  first\_letter = first\_word[0] |
| ACCESS first letter of second word  ASSIGN to variable (second\_letter) | second\_word = acronym\_words[1]  second\_letter = second\_word[0] |
| ACCESS first letter of third word  ASSIGN to variable (third\_letter) | third\_word = acronym\_words[2]  third\_letter = third\_word[0] |
| CONCATENATE three letters  ASSIGN to variable (acronym) | acronym = first\_letter + second\_letter + third\_letter |
| OUTPUT acronym | print(“The acronym is:”, acronym) |

We can now use this to create the final function:

def acronym\_generator():

acronym\_string = input(“Please enter the words you want to convert to an acronym”)

acronym\_words = acronym\_string.split()

first\_word = acronym\_words[0]

first\_letter = first\_word[0]

second\_word = acronym\_words[1]

second\_letter = second\_word[0]

third\_word = acronym\_words[2]

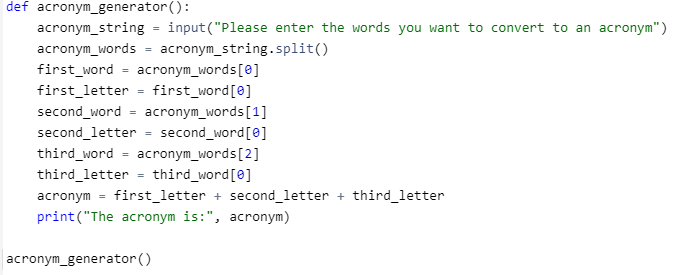
third\_letter = third\_word[0]

acronym = first\_letter + second\_letter + third\_letter

print(“The acronym is:”, acronym)

acronym\_generator()

Your code should look as follows:



Therefore, when we run the program, we get the desired output:

