python_what_is_a_function_workbook_answers

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1 PYTHON WHAT IS A FUNCTION WORKBOOK ANSWERS

Remember, there are different ways to write code to get the same answer, so your answer can be correct and different to the answer example!

If you feel stuck and want some in person help, then have a look at the events page to join in a workshop https://swamphen.co.uk/events.

In [ ]:
```
# write and test a function to change a string from upper to lower case

my_string = 'TAMARA'

def change_to_lower_case(my_string):
    answer = my_string.lower()
    return(answer)

answer = change_to_lower_case(my_string)

print(answer)
```

In [ ]:
```
# write and test a function to add 2 to a given number and print to screen

a = 4

def add_two(a):
    print(a + 2)
    return

add_two(4)
```

In [ ]:
```
# write and test a function to pick out even numbers from a list and print

my_list = [1,2,3,4,5,6]

def select_even(my_list):
    for number in my_list:
        if number%2 == 0:
            print(number)
```

```
        return

    select_even(my_list)
```

In [ ]:
```
    # write and test a function to pick out strings starting with a from a list
    # and save them to a new list

    my_list = ['apple', 'bananna', 'avacado', 'feijoa', 'kiwi']

    def select_a(my_list):
        list_a = []
        for fruit in my_list:
            if fruit[0] == 'a':
                list_a.append(fruit)
        return(list_a)

    list_a = select_a(my_list)
    print(list_a)
```

In [ ]:
```
    # write and test a function to check if all elements in a list are floats,
    # if not change them to a float
    # create a new copy of the list which is all floats
    # the input list is a mixture of integers, floats and numbers as strings

    my_list = [1,2,3.3,5.5, '8', '9.9']

    def change_to_float(my_list):
        float_list = []
        for element in my_list:
            if type(element) != float:
                float_list.append(float(element))
            else:
                float_list.append(element)
        return(float_list)

    float_list = change_to_float(my_list)

    print(float_list)
```