

Nina Ngouabou

Functions in Python

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Homework 1:

Homework 1 - translator.py:

Rewrite the translation homework using functions.

```

38 word_english_french = {
39     "good morning": "bonjour",
40     "good night": "bonne nuit",
41     "i am sorry": "je suis désolé",
42     "i love you": "je t'aime",
43     "how are you": "comment ça va",
44     "prune": "élaguer",
45     "what's your name": "comment tu t'appelles",
46     "East coast the best coast": "la côte Est est la meilleure côte",
47 }
48 # using the def function we create a checklist function with the parameter word to check
49
50 def checklist(word_to_check):
51     translation = word_english_french.get(word_to_check)
52     return translation
53
54 # This line of code will prompt the user to say something in English
55
56 text_to_translate = input("Say something in english: \n")
57
58
59 translation = checklist(text_to_translate)
60 # Using the if statement so that if the user says something that's not in dictionary he will get a different message
61 if translation:
62     print(f'The translation in French is: {translation}')
63
64 else:
65     print("The word is not in my memory. Please help me find it.")

```

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```

• $ python translator.function.py
Say something in english:
how are you
The translation in French is: comment ça va

```

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```

• $ python translator.function.py
Say something in english:
birthday
The word is not in my memory. Please help me find it.

```

Homework 2:

Homework2 – even\_or\_odd\_checkers.py:

1

Write a code using functions that will return even or return odd.

```
1  # Write a program that will ask the user for a number that check wether that number is EVEN or ODD
2
3  # defining the function and setting the conditions
4
5  def check_number (x):
6      if x % 2 == 0:
7          print (f"Your user number {x} is even")
8      else:
9          print (f"Your user number {x} is odd")
10     return x
11
12 # prompt the user to say enter a number
13 number = int (input("Please enter a number between 1-100: \t"))
14
15 # calling the function
16 check_number(number)
17
18
19
```

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- \$ python even\_odd\_functions.py  
Please enter a number between 1-100: 88  
Your user number 88 is even
- \$ python even\_odd\_functions.py  
Please enter a number between 1-100: 41  
Your user number 41 is odd

### Homework 3:

#### Homework3 – calculator.py:

Write a calculator program.

Your code will provide two numbers and the user will select what type of operation needed.

```

1  # first define all the functions with the operation needed
2  def add (x, y):
3      z = x +y
4      return z
5
6  def subtract (x, y):
7      z = x - y
8      return z
9
10 def multiply (x ,y):
11     z = x * y
12     return z
13
14 def divide (x, y):
15     z = x / y
16
17     return z
18
19 # defining x and y and asking the user to choose any number
20 x = int(input("choose a number:\t"))
21 y = int(input("choose a number:\t"))
22
23 # calling each of the functions
24 print (f"The addition of {x} and {y} is:\t{add(x, y)}")
25
26 print(f"The subtraction of {x} and {y} is:\t{subtract(x, y)}")
27
28 print (f"The multiplication of {x} and {y} is:\t{multiply(x, y)}")
29
30 print (f"The division of {x} and {y} is:\t{divide(x, y):.3}")
31

```

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```

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$ python calculator_function.py
choose a number:      72
choose a number:      19
The addition of 72 and 19 is:   91
The subtraction of 72 and 19 is:  53
The multiplication of 72 and 19 is: 1368
The division of 72 and 19 is:  3.79

```