

# FUNCTIONS EXERCISE

## TASK 1:IMPORT RANDOM INSIDE A FUNCTION WITH TWO PARAMETERS

### WORK WITH

```
# Add code here

# Add code here

rd.seed(10)

numbers = range(1, rd.randint(1, rad))

calc = []
for i in range(len(numbers)):
    # Add Code VV
    numbers[i] # Add code here:
    s = numbers[i]
    # Add code here

    #Add Code here
    s = 0
    # Add code here
# Add code VV
print((calc))
#Add Code VV
calc
```

### FINAL INPUT

#### 1ST

compute(20, 1)

#### 2ND

compute(20, 0)

### DESIRED OUTPUT

#### 1ST

56

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 11, 0, 13, 0, 15, 0, 17, 0]

#### 2ND

60

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 12, 0, 14, 0, 16, 0, 18]

## HINTS?

1. Name the function **compute** and **import** random as **rd**.
2. The function, **compute** has two non-default parameters, **rad** and **num**.
3. In the **for** loop, use both **if** and **else** control flow
4. Use **calc.append** in two parts of this function, one for the **if** and **else**.
5. For the **if** statement, use modulus, **% 2 == num**, and **> 10**.
6. Don't forget to use the **return** at the end of your function!
7. For the **print**, use the **sum** for **calc**.

## TASK 2: CALL A NESTED FUNCTION AND MODIFY ITS DEFAULT PARAMETER

### WORK WITH

```
def lang(program = "JavaScript"):  
  
    print("My favourite language is {}".format(program))
```

## FINAL INPUT

udemy("Python")

## DESIRED OUTPUT

My favourite language is Python  
The coolest part about Python is functions

## HINTS?

1. Create a function called **udemy()** that uses a single **print**.
2. For **lang()**, default parameter is **"JavaScript"** which uses the **format** function.
3. For **udemy()**, the parameter can be changed and also uses **format**
4. Call **lang()** inside of **udemy()**.

## TASK 3: FUNCTION REPEATS ANOTHER FUNCTION WITH INPUT

### WORK WITH

```
def greet(name= "Michael"):  
    print("Hello there, " + name, "!")
```

## DESIRED OUTPUT

Student name: Michael  
Hello there, Michael !  
Student name: Sarah

Hello there, Sarah !  
Student name: Callum  
Hello there, Callum !

## HINTS?

1. For the function, `repeat()`, use a parameter, `n`, to use in a `for` loop.
2. In `repeat()`, use the `input` method and assign it to a variable called `name`.
3. Place the `greet` function inside the `repeat` function.

## TASK 4: FUNCTION WITH CONTROL FLOW AND FORMATTING

### WORK WITH

```
def survivor(name= "Michael") :  
    zomb1 = input("How many zombies are there? ")  
    zombie = (zomb1)  
  
    if add code here  
        print("{} is fighting {} zombies!" # add code here  
  
    elif add code here  
        print("{} is shooting {} zombies!" # add code here  
  
    elif add code here  
        print("{} is running from {} zombies!" #add code here  
    else:  
        print("{} is eaten ALIVE by {} zombies!!!!!" #add code here
```

### DESIRED OUTPUT

How many zombies are there? 110  
Michael is running from 110 zombies!

## HINTS?

1. Use the `eval` and an operator.
2. For the `if` statement, zombie between 1 and under 20
3. For the 1st `elif` statement, zombie between 20 and under 100
4. For the 2nd `elif` statement, zombie between 100 and under 200

**SOLUTIONS AVAILABLE IN THE PDF FOR THIS SECTION!**