

5. Generators

Define a generator function called **my_range** that produces a sequence of numbers based on the given start, stop, and step values. Check and validate input arguments using Built-in Exceptions.

1. Raise a **ValueError** if any of the parameters (**start**, **stop**, **step**) are not integers.
2. Raise a **ValueError** if the **step** parameter is zero.
3. Raise a **ValueError** if the **step** parameter prevents the sequence from reaching the **stop** value.

Expected Test Result:

```
result = list(my_range(1, 10, 2)) # Output: [1, 3, 5, 7, 9]

result = list(my_range(1.5, 10, 2))
# Raises ValueError: start parameter must be an integer

result = list(my_range(1, 10, 0))
# Raises ValueError: step parameter cannot be zero

result = list(my_range(10, 1, 2))
# Raises ValueError: invalid range, step prevents sequence from
# reaching stop value
```