Forward School

Program Code: J620-002-4:2020

Program Name: FRONT-END SOFTWARE

DEVELOPMENT

Title: Exercise 1

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Introduction: I am practising on for loop and conditional expressions using Python.

Conclusion: I have better understanding on using conditional expressions and f-string now.

EXERCISE 1

RUN ME

Please run the code snippet below. It is required for running tests for your solution.

```
In [2]:
         # A. donuts
            # Given an int count of a number of donuts, return a string
            # of the form 'Number of donuts: <count>', where <count> is the number
            # passed in. However, if the count is 10 or more, then use the word 'many'
            # instead of the actual count.
            # So donuts(5) returns 'Number of donuts: 5'
            # and donuts(23) returns 'Number of donuts: many'
            def donuts(count):
                #++ your code here ++
                if count >= 10:
                    num = "many"
                else:
                    num = str(count)
                return "Number of donuts: " + num
            print('donuts')
            # Each line calls donuts, compares its result to the expected for that call
            test(donuts(4), 'Number of donuts: 4')
            test(donuts(9), 'Number of donuts: 9')
            test(donuts(10), 'Number of donuts: many')
            test(donuts(99), 'Number of donuts: many')
            donuts
             OK got: 'Number of donuts: 4' expected: 'Number of donuts: 4'
             OK got: 'Number of donuts: 9' expected: 'Number of donuts: 9'
             OK got: 'Number of donuts: many' expected: 'Number of donuts: many'
```

OK got: 'Number of donuts: many' expected: 'Number of donuts: many'

```
In [3]:
        # B. both_ends
            # Given a string s, return a string made of the first 2
            # and the last 2 chars of the original string,
            # so 'spring' yields 'spng'. However, if the string length
            # is less than 2, return instead the empty string.
            def both_ends(s):
                #++ your code here ++
                return f"{s[0 : 2]}{s[-2 : ]}" if len(s) >= 2 else ""
            print()
            print('both_ends')
            test(both_ends('spring'), 'spng')
            test(both_ends('Hello'), 'Helo')
            test(both_ends('a'), '')
            test(both_ends('xyz'), 'xyyz')
            both ends
```

```
OK got: 'spng' expected: 'spng'
OK got: 'Helo' expected: 'Helo'
OK got: '' expected: ''
OK got: 'xyyz' expected: 'xyyz'
```

```
In [4]:

    # C. fix_start

            # Given a string s, return a string
            # where all occurences of its first char have
            # been changed to '*', except do not change
            # the first char itself.
            # e.g. 'babble' yields 'ba**le'
            # Assume that the string is length 1 or more.
            # Hint: s.replace(stra, strb) returns a version of string s
            # where all instances of stra have been replaced by strb.
            def fix_start(s):
                #++ your code here ++
                return f'{s[0]}{s[1 : ].replace(s[0], "*")}'
            print()
            print('fix_start')
            test(fix_start('babble'), 'ba**le')
            test(fix_start('aardvark'), 'a*rdv*rk')
            test(fix_start('google'), 'goo*le')
            test(fix_start('donut'), 'donut')
```

```
fix_start
  OK got: 'ba**le' expected: 'ba**le'
  OK got: 'a*rdv*rk' expected: 'a*rdv*rk'
  OK got: 'goo*le' expected: 'goo*le'
  OK got: 'donut' expected: 'donut'
```

```
mix_up
OK got: 'pox mid' expected: 'pox mid'
OK got: 'dig donner' expected: 'dig donner'
OK got: 'spash gnort' expected: 'spash gnort'
OK got: 'fizzy perm' expected: 'fizzy perm'
```