Correcting Code Exercise 2

Program 1

#return average instead of numbers

#added : to for

def calculate\_average(numbers):

total = 0

for num in numbers:

total += numbers

average = total / len(numbers)

return average

Program 2

#added : to if and else statements

def factorial(n):

if n == 0 or n == 1:

return 1

else:

return n \* factorial(n-1)

Program 3

#corrected ‘num \* 2 for numbers in number’

#I assume you can just create a list with a for loop like that

numbers = [1, 2, 3, 4, 5]

squared\_numbers = [num \* 2 for num in numbers]

print("Squared Numbers:", squared\_numbers)

Program 4

#’return prime’ was indented one too many times

#added : to for

def is\_prime(n):

prime = True

for i in range(2, n):

if n % i == 0:

prime = False

return prime

Program 5

#incorrect indents

#added : to fors

def print\_pattern(rows):

for i in range(1, rows + 1):

for j in range(1, i):

print(j, end=””)

print()

Program 6

#corrected ‘number’ to ‘numbers’

#if statement wasn’t indented for the ‘for’

#replaced < with >

#added line in if statement to update max\_num

#added : to if statement

def find\_max(numbers):

max\_num = 0

for num in numbers:

if num > max\_num:

max\_num = num

return maxnum

Program 7

#replaced ‘return reversed\_t’ with ‘return reversed\_s’

def reverse\_string(s):

reversed\_s = “”

for char in s:

reversed\_s = char + reversed\_s

return reversed\_s

Program 8

#range typo

#return powers

def power\_of\_two(n):

powers = [2 \*\* i for i in range(1, n+1)]

return powers

Program 9

#count typo

#corrected indents

def count\_vowels(word):

vowels = “aeiou”

count = 0

for char in word:

if char.lower() in vowels:

count += 1

return count

Program 10

#corrected for num in nums

#corrected total += num

#corrected average typo

def find\_average(nums):

total = 0

count = 0

for num in nums:

total += num

count =+ 1

average = total / count

return average