Corrections to Modules 4, 5, and 6

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In each of the last three critical thinking assignments, corrections can be made to any mistakes to ensure proper learning of Python programming. The following are corrections to the submitted programs from the last three modules.

**Module 4, Option 1: Repetition Control Structure – Five Floating Point Numbers**

The fourth critical thinking assignment was turned in for full credit. The following is the program from the assignment.

amounts = int(input('Enter five floating-point values:\n'))

for number in range(0, len(amounts)):

total += amounts(number)

print('The total is', total)

average = total / len(amounts)

print('The average is', average)

maximum = max(amounts)

print('The highest value is', maximum)

minimum = min(amounts)

print('The lowest value is', minimum)

for number in amounts:

amounts\_with\_interest.append(number \* 1.2)

print('Original values with 20% interest are', amounts\_with\_interest)

**Module 5, Option 1: String Values in Reverse Order**

The fifth critical thinking assignment was turned in for full credit. The following is the program from the assignment.

user\_str = str(input('Enter three string values:\n'))

def main\_method(user\_str):

return reversed(user\_str)

print('String values in reverse order is:', main\_method)

**Module 6, Option 1: Working with Python Classes**

The sixth critical thinking assignment received 54 out of 60 points. The following is a corrected critical thinking assignment.

def \_\_init\_\_(self, real, imaginary):

self.real = real

self.imaginary = imaginary

def add(self):

return self.real + self.imaginary

def sub(self):

return self.real - self.imaginary

def mul(self):

return self.real \* self.imaginary

def div(self):

return self.real / self.imaginary

def mod(self):

return self.real % self.imaginary

if \_\_name\_\_ == '\_\_main\_\_':

#Input two numbers

var1, var2 = input("Enter two numbers giving a space here: ").split()

#Convert to floats

var1, var2 = float(var1), float(var2)

#Create Instance

a = nums(var1, var2)

#Print inputs

print('Inputs: ', a.real, a.imaginary)

#Print Sum

print('Sum: ', a.real, '+', a.imaginary, 'i', '='

, a.add())

#Print Sub

print('Sub: ', a.real, '-', a.imaginary, 'i', '='

, a.sub())

# Print Mul

print('Mul: ', a.real, '\*', a.imaginary, 'i', '='

, a.mul())

# Print Div

print('Div: ', a.real, '/', a.imaginary, 'i', '='

, a.div())

# Print Mod

print('Mod: ', a.real, '%', a.imaginary, 'i', '='

, a.mod())

**Conclusion**

When making corrections to previous critical thinking assignment programs, a programmer can make ensure the learning of Python.