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Assignment 1
DSC 450
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01/10/21
Part 1
```

A.

For part A, I created a function that received a string of numbers. I then removed the commas from the string using the split function. I found the length of the string to use when solving for the average. I then added each item in the string to a list as an integer. Finally, I found the sum of the list and divided it by the length of the list to find the average. I returned the average as the variable, 'res'.

Python Code:

```
def average(lst):
  newLst = lst.split(',')
  length = len(newLst)
  intLst = []
  for item in newLst:
    intLst.append(int(item))
  res = sum(intLst)/length
  return res
print(average('1, 2, 3, 4, 5'))
def average(lst):
  newLst = lst.split(',')
  length = len(newLst)
  intLst = []
  for item in newLst:
    intLst.append(int(item))
  res = sum(intLst)/length
  return res
print(average('11, 25, 52, 71, 19'))
```

Output:

```
#Daniel OBrien
#Date 450
#
```

```
In [64]: runfile('/Users/danielobrien/Desktop/HW1.py', wdir='/Users/
danielobrien/Desktop')
3.0
In [65]: runfile('/Users/danielobrien/Desktop/HW1.py', wdir='/Users/
danielobrien/Desktop')
35.6
In [66]:
```

B.

For this code, I created a function that received two different variables, TName and Lst. The first variable indicates what the other items of the list will be inserted into. I then removed commas from the list to better format the return statement. I used brackets and the .format option to create a return statement as requested.

Python Code:

```
def SQLInsert(TName, Lst):
    newLst = (', '.join(Lst))
    return 'INSERT INTO {} VALUES ({})'.format(TName, newLst)

print(SQLInsert('Students', ['1', 'Jane', 'A+']))

def SQLInsert(TName, Lst):
    newLst = (', '.join(Lst))
    return 'INSERT INTO {} VALUES ({})'.format(TName, newLst)
```

print(SQLInsert('Students', ['15', 'Daniel', 'B+']))

Output:



```
In [58]: runfile('/Users/danielobrien/Desktop/HWlb.py', wdir='/Users/danielobrien/Desktop')
INSERT INTO Students VALUES (1, Jane, A+)
In [59]: runfile('/Users/danielobrien/Desktop/HWlb.py', wdir='/Users/danielobrien/Desktop')
INSERT INTO Students VALUES (15, Daniel, B+)
In [60]:
```