New York University
School of Continuing and Professional Studies
Division of Programs in Information Technology

Introduction to Python
Session 1 Homework Solutions

1.1 Exponientation with tidy border.

```python
var_1 = input('Please enter an integer:  ')
var_2 = input('Please enter another integer:  ')

expo = int(var_1) ** int(var_2)

lenexpo = len(str(expo))

print('=' * lenexpo)
print(expo)
print('=' * lenexpo)
```

1.2 Tip calculator.

```python
bill_amt = input('Please enter the total bill amount:  ')
party_size =  input('Please enter the number in your party:  ')
tip_pct = input('Please enter the desired tip percentage (for example, "20" for 20%):  ')

bill_amt = float(bill_amt)
party_size = int(party_size)
tip_pct = float(tip_pct)

tip_amt = bill_amt * tip_pct * .01

total_bill = bill_amt + tip_amt
person_share = total_bill / party_size

print('A ' + str(tip_pct) + '% tip ($' + str(tip_amt) + ') was added to the bill, for a total of $' + str(total_bill))
print('With ' + str(party_size) + ' in your party, each person must pay $' + str(person_share))
```