Exercise

Complete the following program so that it prints the initial from the first name followed by a full stop, a space and followed by the surname. Assume the full name is always two names separated by a single space.

```python
full_name = "Wystan Auden"
first_letter = full_name[0]
space_index = full_name.find(" ")
last_name = full_name[space_index + 1:]
initialled_name = first_letter + ". " + last_name
print(initialled_name)
```

W. Auden
Tax Calculator - Exercise

- Complete the following program so that it prints the total tax and the net pay rounded to a whole number. The first $14000 is not taxed. The next amount up to $38000 is taxed at 24% and the rest is taxed at 34%.

```python
salary = 54000
no_tax_boundary = 14000
rate1_boundary = 38000
rate1 = 0.24
rate2 = 0.34

print("=" * 32)
print("Salary: $", salary, sep = "")
print("Amount to be taxed at: 24.0%: $", rate1 * (salary - no_tax_boundary), sep = "")
print("Tax at rate1: $", rate1 * (salary - no_tax_boundary), sep = "")
print("Amount to be taxed at: 34.0%: $", rate2 * (rate1_boundary - no_tax_boundary), sep = "")
print("Tax at rate2: $", rate2 * (rate1_boundary - no_tax_boundary), sep = "")
print("=" * 32)
print("Total tax: $", total_tax, sep = "")
print("Net pay: $", net_pay, sep = "")
print("=" * 32)
```

Salary: $54000
Amount to be taxed at: 24.0%: $24000
Tax at rate1: $5760.0
Amount to be taxed at: 34.0%: $16000
Tax at rate2: $5440.0

Total tax: $11200
Net pay: $42800

=`* 32
salary = 54000
no_tax_boundary = 14000
rate1_boundary = 38000
rate1 = 0.24
rate2 = 0.34
taxable1 = rate1_boundary - no_tax_boundary
taxable2 = salary - rate1_boundary
tax1 = taxable1 * rate1
tax2 = taxable2 * rate2
total_tax = round(tax1 + tax2)
net_pay = salary - total_tax
print("Salary: $", salary, sep = "")
print("Amount to be taxed at: ", rate1 * 100, "\%: $", taxable1 , sep = "")
print("Tax at rate1: $", tax1, sep = "")
print("Amount to be taxed at: ", rate2 * 100, "\%: $", taxable2 , sep = "")
print("Tax at rate2: $", tax2, sep = "")
print("=" * 32)
print("Total tax: $", total_tax, sep = "")
print()
print("Net pay: $", net_pay, sep = "")
print("=" * 32)