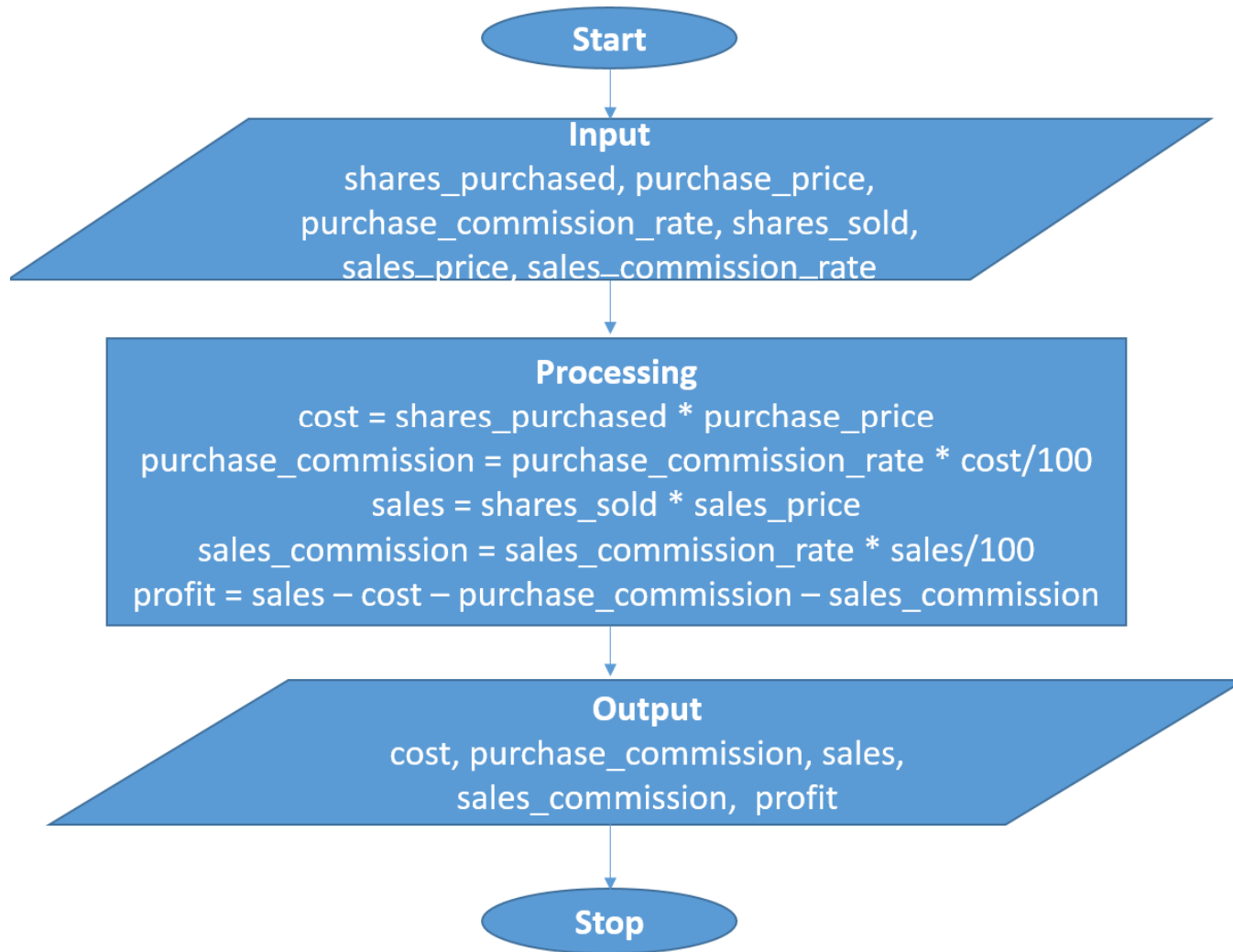


Homework 2 Solution

COMSC-122

Fall 2017

Homework 2 FlowChart & Algorithm



Homework 2

Solution

```
# Homework02 - Stock Transaction
```

```
# Mac Littlefield
```

```
# Data Input
```

```
shares_purchased = int(input('Enter number of shares purchased: '))
```

```
purchase_price = float(input('Enter the price per share [in dollars]: '))
```

```
purchase_commission_rate = float(input('Enter the commission percentage paid broker [in percent]: '))
```

```
shares_sold = int(input('Enter the number of shares sold: '))
```

```
sales_price = float(input('Enter the sales price per share [in dollars]: '))
```

```
sales_commission_rate = float(input('Enter the sales commission percentage paid broker [in percent]: '))
```

```
# Data Processing
```

```
cost = shares_purchased * purchase_price
```

```
purchase_commission = purchase_commission_rate * cost / 100
```

```
sales = shares_sold * sales_price
```

```
sales_commission = sales_commission_rate * sales / 100
```

```
profit = sales - cost - purchase_commission - sales_commission
```

```
# Data Output
```

```
print('Joe paid: $', format(cost, ',.2f'), sep='')
```

```
print('Purchase Commission: $', format(purchase_commission, ',.2f'), sep='')
```

```
print('Joe sold at: $', format(sales, ',.2f'), sep='')
```

```
print('Sales Commission: $', format(sales_commission, ',.2f'), sep='')
```

```
print("Joe's profit: $", format(profit, ',.2f'), sep='')
```

```
exit = input("")
```

Running Homework02.py

C:\WINDOWS\py.exe

```
Enter number of shares purchased: 2000
Enter the price per share [in dollars]: 40
Enter the commission percentage paid broker [in percent]: 3
Enter the number of shares sold: 2000
Enter the sales price per share [in dollars]: 42.75
Enter the sales commission percentage paid broker [in percent]: 3
Joe paid: $80,000.00
Purchase Commission: $2,400.00
Joe sold at: $85,500.00
Sales Commission: $2,565.00
Joe's profit: $535.00
```

■