Python Formatting

Currently

pymt = 2.3

Print('Payment is: ', pymt)

    yields

Payment is: 2.3

Would like

```
pymt = 2.3
Print('Payment is: ', pymt)
    yields
Payment is: $2.30
```

Formatting

Formatting the output

Make the output readable

Previous Method

Using the % character (previous)

%
define where the formatting is
 and
what variable to use

% way codes

With the %

%s – string (text)

%d – integer (whole)

%f – float (decimal)

%6.2f - length

$%.2f – currency

HOW

nm = "Jane Doe"

print('Name is: %s' % (nm))

Note: NO , (comma)

Use % for placeholder

s = string

Variable to use noted by the %

Example % (string)

```
nm = "Jane Doe"
print('Name is: %s' % (nm))
print
fn = 'Jimmy'
ln = 'Johns'
print('First Name is %s' % (fn))
print('Last Name is: %s' % (ln))
print('%s %s' % (fn,ln))
```

fmt01

Numbers   %d

Example:

nm = 101

print('Number is: %d' %(nm))

d means number

```
nm = 101
print('Number is: %d' %(nm))
print
fn = 202
ln = 555
print('First number is %d' %(fn))
print('Last number is: %d' %(ln))
print('Name: %d %d'% (fn,ln))
```

fmt02

Decimal   %f

```
nm = 101.6
print('Number is: %f' %(nm))
print
fn = 202.99
ln = 555.00007
print('First number is %f' %(fn))
print('Last number is: %f' %(ln))
print('Name: %d %d'% (fn,ln))
```

Decimal %f length

```
nm = 101.6
print('Numbr is: %6.2f' %(nm))
print
fn = 202.99
ln = 555.00007
print('First number is %6.2f' %(fn))
print('Last number is: %6.2f' %(ln))
print('Name: %6.2f  %6.2f'% (fn,ln))
```

Dollar format %

nm = 101.6

print('Number is: $%.2f' % (nm))

print

fn = 2.99

ln = 99555.00007

print('First number is $%.2f' %(fn))

print('Last number is: $%.2f' %(ln))

print('Name: $%.2f $%.2f'% (fn,ln))

fmt05

Summary   % way

With the %

%s   – string (text)

%d   – integer (whole)

%f   – float (decimal)

%6.2f   - length

$%.2f   – currency

Current way

Using .format method

Format:
    Use brackets {} as place holder
And
    .format(variable)
Where the variable is inside the parentheses

.format   way codes

Using with .format
{}   - string (text)
{:d} - number (integer)
{:f} - float (decimal)
{:6.2f}. - length
{:,.2f} - currency

HOW

```python
nm = "Jane Doe"
print('Name is: {}'.format(nm))
```

Placeholder Brackets

Variable

The format method

Example {} (string)

```
nm = "Jane Doe"
print('Name is: {}'.format(nm))
print
fn = 'Jimmy'
ln = 'Johns'
print('First Name is {}'.format(fn))
print('Last Name is: {}'.format(ln))
print('Name: {}{}'.format(fn,ln))
```

fmt10

number format

```
nm = 101
print('Number is: {:d}'.format(nm))
print
fn = 2
ln = 55577
print('First number is {:d}'.format(fn))
print('Last number is: {:d}'.format(ln))
print('Name: {:d} {:d}'.format(fn,ln))
```

Note Need the colon

fmt11

decimal .format method <mark>try this</mark>

```
nm = 101.6
print('Number is: {:f}'.format(nm))
print
fn = 202.99
ln = 555.00007
print('First number is {:f}'.format(fn))
print('Last number is: {:f}'.format(ln))
print('Name: {:f} {:f}'.format(fn,ln))
```

fmt12

decimal .format Length

```python
nm = 101.02
print('Number is: {:6.2f}'.format(nm))
print
fn = 202.0588
ln = 555.0000075
print('First number is {:6.2f}'.format(fn))
print('Last number is: {:6.2f}'.format(ln))
print('Name: {:6.2f} {:6.2f}'.format(fn,ln))
```

Dollar formatting .format

nm = 101.6

print('Number is: ${:,.2f}'.format(nm))

print

fn = 202.99

ln = 99555.00007

print('First number is ${:,.2f}'.format(fn))

print('Last number is: ${:,.2f}'.format(ln))

print('Name: ${:,.2f} ${:,.2f}'.format(fn,ln))

fmt14

Summary .format way

Using with .format

{} - string (text)

{:d} - number (integer)

{:f} - float (decimal)

{:6.2f}. - length

{:,.2f} - currency

done