

Computer Programming

Python #6 – I Love Python

Background:

You are to create a function that uses a for-loop to output I love Python.

Assignment:

1. In your Computer Programming folder, create a folder titled *first_last_python_6*. Start IDLE. Create a new file. Save it in your *first_last_python_6* folder as *love_python.py*.
2. At the top of the file, create a function called *love_python* that accepts one parameter called *count*.
3. Inside the function, you should add the following:
 - a. A for-loop that prints the string *I love Python* the number of times as the value of *count*.
 - b. Number each line in the output as the output is printed. Allow 2 spaces to output the number.
 - c. In addition, print the sum of the numbers from 1 to count.
4. As an example, if the value of *count* were 7, you would print the following:

```
1 I love Python
2 I love Python
3 I love Python
4 I love Python
5 I love Python
6 I love Python
7 I love Python
```

The sum of the numbers from 1 to 7 is 28

5. Test your function by putting the following lines of code after your function definition:

```
love_python(3)
print()
love_python(18)
```

6. If you did your code correctly, your output should look like this:

```
1 I love Python
2 I love Python
3 I love Python
```

The sum of numbers from 1 to 3 is 6

```
1 I love Python
2 I love Python
3 I love Python
4 I love Python
5 I love Python
6 I love Python
7 I love Python
8 I love Python
9 I love Python
10 I love Python
11 I love Python
12 I love Python
13 I love Python
14 I love Python
15 I love Python
16 I love Python
17 I love Python
18 I love Python
```

The sum of numbers from 1 to 18 is 171

7. Now replace the 3 lines of code you added in step 5 with these lines of code:

```
print()
love_python(5)
print()
love_python(22)
print()
love_python(45)
print()
love_python(87)
```

8. Run the program.
9. Create a text document called `output.txt` in your `first_last_python_6` folder. Copy the output from the Python shell, paste it in your `output.txt` file, and save the file.

Before you turn this assignment in, make sure that your `first_last_python_6` folder has 2 files:

1. `output.txt`
2. `love_python.py`

Zip your `first_last_python_6` folder and turn it in in the usual manner.