



COMPUTING FOR DATA ANALYTICS(CPSC 4800)

Assignment #1

Due Date: **June 3, 2023**

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I Questions

- ❑ The goal of this assignment is to learn how to display your program output in a **human-readable** format

➡ using **f formatting**

- ❑ Read **Python** documentation

➡ <https://docs.python.org/3/tutorial/inputoutput.html>

- ❑ Given the following **Python** code:

```
1 from math import pi
2 import datetime
3 x = 1234567890
4 y = pi
5 z = .723
6 today = datetime.datetime.now()
```

String Formatting

(26 marks)

1. Using **f format**, write **Python** code that produces the output as shown in figure 1 on page 3.

```
-----  
| String Formatting |  
-----  
| 25 width left-aligned string output s = String Formatting      .  
| 25 width left-aligned string output s padded with ? s = String Formatting?????????.  
| 25 width right-aligned string output s =          String Formatting.  
| 25 width right-aligned string output s padded with ? s = ????????String Formatting.
```

Figure 1: String Formatting Output

Number Formatting

(32 marks)

2. Using **f format**, write **Python** code that produces the output as shown in figure 2 on page 3.

```
-----  
| Number Formatting |  
-----  
| Integer x with thousand separator x = 1,234,567,890  
| Integer x in binary = 1001001100101100000001011010010  
| Floating-point with 10-decimal y = 3.1415926536  
| Floating-point in scientific format y = 3.14159e+00  
| Floating-point as percentage z = 72.30%
```

Figure 2: Number Formatting Output

Date & Time Formatting

(32 marks)

3. Using **f format**, write **Python** code that produces the output as shown in figure 3 on page 4.

```
-----  
| Date & Time Formatting |  
-----  
| Date in the format YY-MM-DD 22-05-29  
| Date in the format YYYY-MM-DD 2022-05-29  
| Date in with the day & month name Sunday 29, May 2022  
| Time in the format HH-MM-SS 15:53:19  
| Date in the format YYYY-MM-DD HH-MM-SS 2022-05-29 15:53:19
```


Figure 3: Date & Time Formatting Output

II Marking Scheme

Task	Marks
Question I	26
Question II	32
Question III	32
Python Coding Style III	10
Total	100

III submission

Submission

 Upload your **Python** file to the submission Page on Brightspace.