

FORMATTING EXERCISE v1.01 QUESTION	ANSWERS
Q1. <u>Formatting floats & doubles</u> Create a double variable called, pi pi = 3.14159, then display pi as 3.14	<pre>double pi = 3.14159; System.out.println(String.format("%.2f", pi)); System.out.printf("%.2f\n", pi);</pre> OR <pre>System.out.printf("%.2f",pi);</pre>
Q2a. <u>Formatting ints</u> int num = 1900 display num as 1,900	<pre>int num = 1900; System.out.println(String.format("%,5d", num)); System.out.printf("%,5d\n", num);</pre> OR <pre>String str = String.format("%,5d\n",num); System.out.println(str);</pre>
Q2b. int num = 1900, display num as ____ 1900	<pre>System.out.printf("%8d\n", num);</pre> OR <pre>System.out.println(String.format("%8d", num));</pre>
Q3. <u>Formatting String</u> Set a=9, b=12, c=2, display as 09-12-02	<pre>int a = 9; int b = 12; int c = 2; System.out.println(String.format("%02d-%02d-%02d", a, b, c));</pre> OR <pre>System.out.printf("%02d-%02d-%02d\n", a, b, c);</pre>
Q4. <u>Formatting floats & ints with justification</u> Formatting name1 is "Braden" and age1 = 17 name2 is "Nana" and age2 = 101 display as ... Braden 17 Nana 101	<pre>String name1 = "Braden"; int age1 = 17; String name2 = "Nana"; int age2 = 101; System.out.println(String.format("%6s%4d", name1, age1)); System.out.println(String.format("%6s%4d", name2, age2));</pre> OR <pre>System.out.printf("%6s%4d\n", name1, age1); System.out.printf("%6s%4d\n", name2, age2);</pre>
Q5. <u>Formatting floats & ints with justification</u> name="Braden" and age = 17 name="Nana" and age = 101 display as ... Braden 17 Nana 101	<pre>System.out.println(String.format("%6s%3d", name1, age1)); System.out.println(String.format("%-6s%4d", name2, age2));</pre> OR <pre>System.out.printf("%6s%3d\n", name1, age1); System.out.printf("%-6s%4d\n", name2, age2);</pre>

Q6. Write the code to display the following exactly as shown:

```
123456789012345
    9    3.1
9      3.1
9      3.1
I have 1000000.00 dollars.
I have 1,000,000 dollars.
DAVE's student number is: 000759099
```

```
int i = 9;
double pi = 3.14159;
double money = 1000000;
int studentNumber = 759099;
String name = "Dave";

System.out.println("123456789012345");
System.out.printf("%5s%6.1f\n", i, pi);
System.out.printf("%-8d%3.1f\n", i, pi);
System.out.printf("I have %.2f dollars.\n", money);
System.out.printf("I have %,0f dollars.\n", money);
System.out.printf("%S's student number is: %09d\n", name,
studentNumber);
```