

Original Partner	Problem 2 COMP 10062	Paired Partner ("grader")	SCORE OBTAINED 5
SOLUTION		Student #	
Student #		formatting with System.out.printf () and s = String.format ()	

<pre> /** * This program demonstrates System.out.printf and the * method String.format() * * @author Dave Slemon * @version v100 */ public class FormattingProgram { public static void main() { int i = 9; double pi = 3.14159; double salary = 160000.00; double x = 50; double y = 100; String s= ""; String name = "Dave"; String studentNo = "000123456"; </pre>	<table border="1"> <thead> <tr> <th>PATTERN</th><th>RESULT</th></tr> </thead> <tbody> <tr> <td>%f</td><td>12345.123450</td></tr> <tr> <td>%15f</td><td>12345.123450</td></tr> <tr> <td>%-15f</td><td>12345.123450</td></tr> <tr> <td>%-15.3f</td><td>12345.123</td></tr> <tr> <td>%015.3f</td><td>00000012345.123</td></tr> </tbody> </table>	PATTERN	RESULT	%f	12345.123450	%15f	12345.123450	%-15f	12345.123450	%-15.3f	12345.123	%015.3f	00000012345.123
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<pre> //1 Right justify Integers (9) System.out.printf("%5d\n", i); //2 Left justify integers (9) System.out.printf("%-5d\n", i); //3 adding a comma to float numbers (My salary is: \$160,000.00) System.out.printf("My salary is: \$%,8.2f\n", salary); //4 left justify a string (My student number is: 000123456) s = String.format("My student number is: %-9s", studentNo); System.out.println(s); //5 rounding up a float (pi = 3.1416) s = String.format("pi = %-.6.4f", pi); System.out.println(s); //6 formatting an ordered pair (centre: {50,100.0}) String ordered_pair = String.format("(%.0f,%.1f)",x,y); System.out.println("centre: " + ordered_pair); </pre>

```
//7 capitalizing (DAVE)
```

```
System.out.printf("%S\n", name);
```

```
//8 Free Conversions to String (My name is Dave and I make 160,000 a year.)
```

```
s = String.format("My name is %s and I make %,6.0f a year.\n",name, salary);
```

```
System.out.printf( s );
```

```
}
```

```
}
```