This problem is about using **System.out.printf( )** and the String method, **String.format ( )** to achieve the product shot in figure 1.   Complete the missing code in the FormattingProgram below, so that the Figure 1 Product Shot is **exactly** realized.

```java
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";
```

```
    9
9
My salary is: $160,000.00
My student number is: 000123456
pi = 3.1416
centre: (50.0, 100.0)
DAVE
My name is Dave and I make 160,000 a year.
```

Figure 1. Product Shot

```java
    //1 Right justify Integers    (    9)
    System.out.printf("[        ]", i);

    //2 Left justify integers    (9)
    System.out.printf("[            ]", i);

    //3 adding a comma to float numbers   (My salary is: $160,000.00)
    System.out.printf("[                    ]", salary);

    //4 left justify a string   (My student number is: 000123456)
    s = String.format("[                    ]", studentNo);
    System.out.println(s);

    //5 rounding up a float   (pi = 3.1416)
    s = String.format("[              ]", pi);
    System.out.println(s);

    //6 formatting an ordered pair    (centre: {50,100.0) )
    String ordered_pair = String.format("[                  ]",x,y);
    System.out.println("centre: " + ordered_pair);

    //7 capitalizing  (DAVE)
    System.out.printf("[          ]", name);

    //8 Free Conversions to String (My name is Dave and I make 160,000 a year.)
    s = String.format("[                    ]",name, salary);
    System.out.printf( s );
```