Refactoring

Extract Method

In each class, I have a small for loop that calculates the amount of tabbing required. Since EACH class uses this duplicate code, I used **extract method** to move this functionality into its own class

// handling formatting  
String tab = "";  
for(int i=0; i<depth; i++){  
 tab += "\t";  
}  
String tab2 = tab + "\t";

Becomes:

// handling formatting  
String[] tabs = *getTab*(depth);  
String tab = tabs[0];  
String tab2 = tabs[1];  
String tab3 = tabs[2];  
String tab4 = tabs[3];

Using method

private static String[] getTab(int depth){  
 String[] tab = new String[4];  
 for(int i=0; i<depth; i++){  
 tab[0] += "\t";  
 tab[1] += "\t";  
 tab[2] += "\t";  
 tab[3] += "\t";  
 }  
 tab[1] += "\t";  
 tab[2] += "\t\t";  
 tab[3] += "\t\t\t";  
  
 return tab;  
}

I did tests by comparing outputs (scripts 1 to 8) and ensuring that the output and formatting was exactly the same.