Problem 1:

```java
24          /*
25           * Ryan Martinez
26           * 9/4/2018
27           * Lab 1 Part 1
28           * Description: This program reads in a calendar year
29           * and then displays if it is a leap year or not|
30           */
31          int year;
32          Scanner input = new Scanner(System.in);
33
34          System.out.print("Enter a year: ");
35          year = input.nextInt();
36
37          if((year % 4) == 0) {
38              if((year % 100) == 0) {
39                  if((year % 400) == 0) {
40                      System.out.print(year + " is a leap year.");
41                  }
42                  else {
43                      System.out.print(year + " is not a leap year.");
44                  }
45              }
46              else {
47                  System.out.print(year + " is a leap year.");
48              }
49          }
50          else {
51              System.out.print(year + " is not a leap year.");
52          }
```

Enter a year: 2048
2048 is a leap year.

Problem 2:

```java
48      /*
49       * Ryan Martinez
50       * 9/4/2018
51       * Lab 1 Part 2
52       * Description: This program reads in name and age and then
53       * prints out the person's age group|
54       */
55      String name;
56      int age;
57      Scanner input = new Scanner(System.in);
58
59      System.out.println("Please enter a person\'s name:");
60      name = input.nextLine();
61
62      System.out.println("Please enter the person\'s age:");
63      age = input.nextInt();
64
65      if(age < 1) {
66          System.out.println(name + " is an infant");
67      }
68      else if(age >= 1 && age <= 3) {
69          System.out.println(name + " is a toddler");
70      }
71      else if(age >= 4 && age <= 5) {
72          System.out.println(name + " is a preschooler");
73      }
74      else if(age >=6 && age <= 12) {
75          System.out.println(name + " is a grade schooler");
76      }
77      else if (age >= 13 && age <= 18) {
78          System.out.println(name + " is a teenager");
79      }
80      else if(age >= 19 && age <= 21) {
81          System.out.println(name + " is a young adult");
82      }
83      else {
84          System.out.println(name + " is an adult");
85      }
```

```
Please enter a person's name:
Timmy
Please enter the person's age:
8
Timmy is a grade schooler
```

```
Please enter a person's name:
Little Timmy
Please enter the person's age:
3
Little Timmy is a toddler

Please enter a person's name:
Little Johnny
Please enter the person's age:
13
Little Johnny is a teenager

Please enter a person's name:
Tammy
Please enter the person's age:
22
Tammy is an adult
```

Problem 3:

```java
82          /*
83           * Ryan Martinez
84           * 9/4/2018
85           * Lab 1 Part 3
86           * Description: This program reads in different variables
87           * from input and then outputs them in a formatted line
88           */
89          Scanner input = new Scanner(System.in);
90          String street;
91          int houseNum;
92          String city;
93          int zipCode;
94          String state;
95
96          System.out.print("Enter your street: ");
97          street = input.nextLine();
98          System.out.print("Enter the house or apartment number: ");
99          houseNum = input.nextInt();
100         input.nextLine();
101         System.out.print("Enter the city: ");
102         city = input.nextLine();
103         System.out.print("Enter the zip code: ");
104         zipCode = input.nextInt();
105         input.nextLine();
106         System.out.print("Enter the State: ");
107         state = input.nextLine();
108
109         System.out.println("\n" + houseNum + " " + street + ","
110                 + " " + city + ", " + state + " " + zipCode);
```

```
Enter your street: State College Blvd
Enter the house or apartment number: 800
Enter the city: Fullerton
Enter the zip code: 92831
Enter the State: CA

800 State College Blvd, Fullerton, CA 92831

Enter your street: Sesame Street
Enter the house or apartment number: 123
Enter the city: New York
Enter the zip code: 10128
Enter the State: NY

123 Sesame Street, New York, NY 10128
```