```
3 Jared Dyreson
 4 CPPToJava.java -> Translate Lab 01 C++ code into Java
 5 CWID: 889546529
 9 import djava.util.Scanner;
10 public class CPPToJava{
11
           public static void main(String args[]){
                   Scanner stdin = new Scanner(System.in);
                   System.out.print("Enter year: ");
14
                   int year = stdin.nextInt();
15
                   // if the year divisible by four
16
                   if(year % 4 == 0){
17
                           // if the year is divisble fully by 100
18
                           if(year % 100 == 0){
19
                                   // if the year is fully divisible by 400
20
                                    if(year % 400 == 0){
21
22
                                           // the year is a leap year
                                            System.out.println(year+ " is a leap year");
23
24
25
26
                                    else{
                                            // not divisble fully by 400 means it is not a leap year
                                            System.out.println(year + " is not a leap year");
27
28
                           }
else{
29
30
                                    // this print statement is redundant because 100 and 400 share a common factor of 100
31
32
33
                                    System.out.println(year + " is a leap year");
34
                   else{
35
36
                           // if the number is not even divisible by 4, we discard it
37
                           System.out.println(year + " is not a leap year");
38
39
40 }
```

	year: not a	100 leap	year			
Press	ENTER	or typ	e command	to	continue_	
	year: leap					
Press	ENTER	or typ	e command	to	continue_	
	year: a lea	400 p year				
Press	ENTER	or typ	e command	to	continue	
	year: not a	35 leap y	ear			
Press	ENTER	or typ	e command	to	continue_	

vim MailingAddress.java

- 0 😣

```
3 Jared Dyreson
 4 CWID: 889546529
 5 MailingAddress.java -> string catentation program based on user input. Prints their current address
 7 */
 8 import java.util.Scanner;
10 public class MailingAddress{
11
           public static void main(String args[]){
13
14
                   // instantiate standard input
15
                   Scanner stdin = new Scanner(System.in);
16
17
                   // street prompt
18
                   System.out.print("Street: ");
19
                   // capture street input
20
                   String street_address = stdin.nextLine();
21
                   // housing number prompt
22
                   System.out.print("House or apartment number: ");
23
                   // capture housing number
24
                   int housing number = stdin.nextInt();
25
                   // clear buffer
26
                   stdin.nextLine();
27
                   // city prompt
28
                   System.out.print("City: ");
29
                   // capture city input
30
                   String city = stdin.nextLine();
31
                   // zip code prompt
32
                   System.out.print("Zip code: ");
33
                   // capture zip code
34
                   int zip code = stdin.nextInt();
35
                   // clear buffer
36
                   stdin.nextLine();
37
                   // state abbreviation prompt
38
                   System.out.print("State abbreviation: ");
39
                   // capture state abbrebivation
40
                   String state abbrv = stdin.nextLine();
41
42
                   // print all the information out using string "addition"/catenation
43
                   System.out.println(housing_number + " " + street_address + "," + " " + city + " " + state_abbrv + " " + zip_code);
44
45 }
```

Street: North State College Blvd House or apartment number: 800 City: Fullerton Zip code: 92831 State abbreviation: CA 800 North State College Blvd, Fullerton CA 92831 Press ENTER or type command to continue

vim NameAge.java

- 🗷 😣

```
3 Jared Dyreson
 4 CWID: 889546529
5 NameAge.java -> Fizz buzz like problem but for age brackets
10 import java.util.Scanner;
11
12 public class NameAge{
13
           public static void main(String args[]){
14
15
                   // create a way to get standard input from the user
16
                   Scanner stdin = new Scanner(System.in);
17
                   // prompt so it does not look like a static terminal
18
                   System.out.print("Enter your age: ");
19
                   // capture the age
20
                   int age = stdin.nextInt();
21
22
                   // clear the buffer == cin.ignore();
23
                   stdin.nextLine();
24
                   // prompt so it does not look like a static terminal
25
                   System.out.print("Enter your name: ");
26
                   // capture the name
27
                   String name = stdin.nextLine();
28
29
                   String category;
30
31
                   // our table mapping. Each age bracket is given a name instead of having several prinln function calls
32
                   if(age < 1){ category = "infant"; }</pre>
33
                   // ages 1-3
34
                   else if((age >= 1) && (age <= 3)) { category = "toddler"; }
35
                   // ages 4-5
36
                   else if((age >= 4) && (age <= 5)) { category = "preschooler"; }</pre>
37
                   // ages 6-12
38
                   else if((age >= 6) && (age <= 12)) { category = "grade schooler"; }</pre>
39
                   // ages 13-18
                   else if((age >= 13) && (age <= 18)) { category = "teenager"; }
40
41
                   // ages 19-21
42
                   else if((age \geq 19) && (age \leq 21)) { category = "young adult"; }
43
                   // ages 21 and older
44
                   else { category = "adult"; }
45
                   // print the name and their corresponding age bracket
46
                   System.out.println(name + " is a " + category);
47
48 }
```

	your age: 19 your name: Jared) linux - How to merge images 🗙	
Jared i	is a young adult		
Press E	ENTER or type co	mmand to continue_ ia;stackoverflow	
	your age: 26 your name: Elise	inux - How to merge images 🗙	+
Elise i	is a adult		guestions/200
Press E	ENTER or type co	mmand to continue	Products