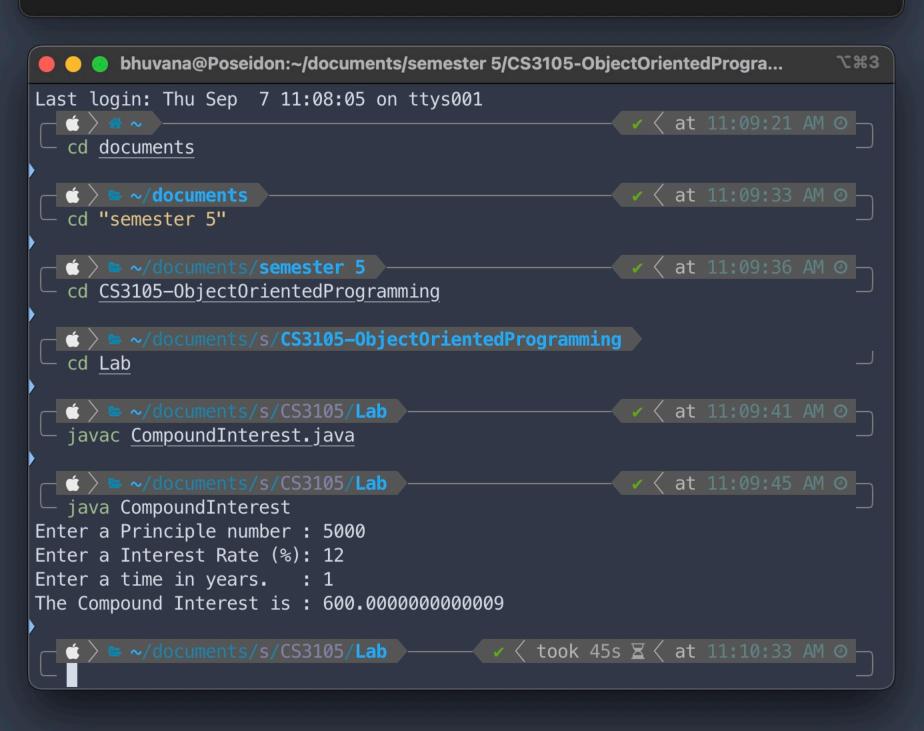
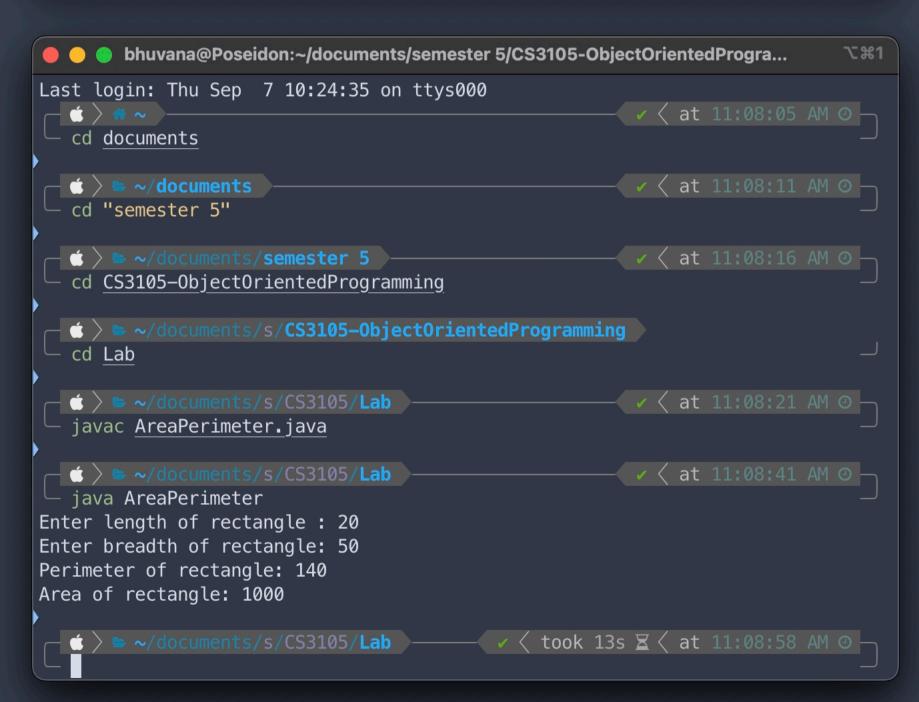
```
CompoundInterest.java
Bhuvana Kanakam, SE21UCSE035
Calculate Compound Interest
concept : Principle*(1+(rate / 100))^time - Principle
import java.util.Scanner;
public class CompoundInterest {
       public static void main (String args[]){
               double compound_interest;
               Scanner value = new Scanner(System.in);
                System.out.print("Enter a Principle number : ");
                double principle = value.nextDouble();
                System.out.print("Enter a Interest Rate (%): ");
                double rate = value.nextDouble();
                System.out.print("Enter a time in years.
                int time = value.nextInt();
                compound_interest = principle * (Math.pow((1 + rate / 100), time)) - principle;
                System.out.println("The Compound Interest is : " + compound_interest);
       }
```

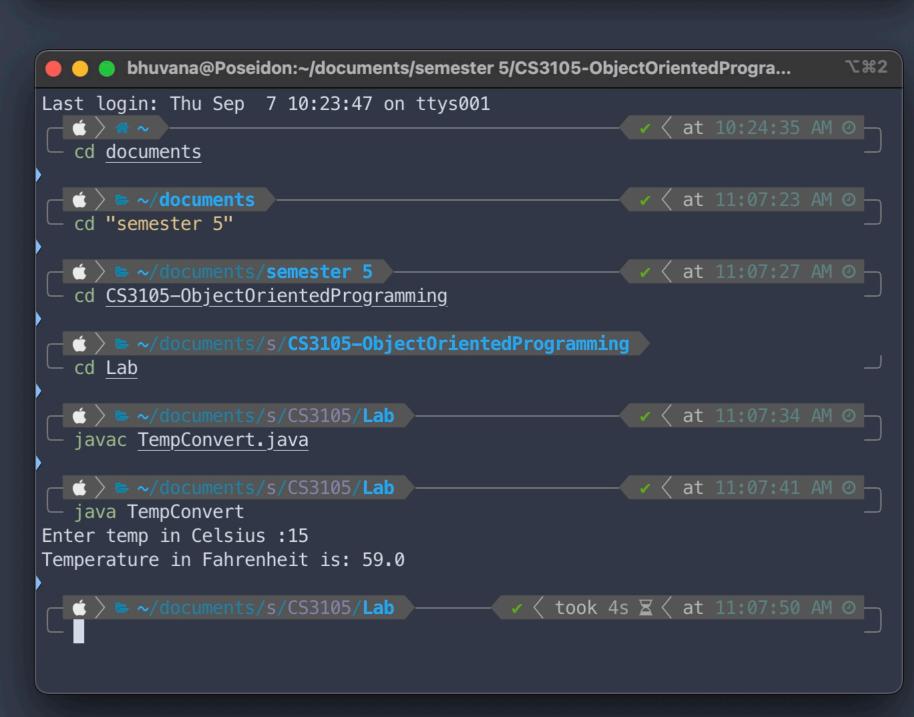


```
AreaPerimeter.java
Bhuvana Kanakam, SE21UCSE035
Calculate Area and Perimeter of rectangle
import java.util.Scanner;
public class AreaPerimeter {
    public static void main(String[] args) {
        int length, bredth, perimeter, area;
        Scanner measurement = new Scanner(System.in);
        System.out.print("Enter length of rectangle : ");
        length = measurement.nextInt();
        System.out.print("Enter breadth of rectangle: ");
       bredth = measurement.nextInt();
        perimeter = 2 * (length + bredth);
        System.out.println("Perimeter of rectangle: "+perimeter);
        area = length * bredth;
        System.out.println("Area of rectangle: "+area);
```



```
/*
Bhuvana Kanakam, SE21UCSE035
Convert Temperature in java.
concept is that T(f) = (T(c) * (9/5)) + 32
*/

import java.util.Scanner;
public class TempConvert{
    public static void main (String[] args){
        Scanner temperature = new Scanner (System.in);
        System.out.print("Enter temp in Celsius:");
        float Celsius = temperature.nextFloat();
        float Fahrenheit = ((Celsius*9)/5) + 32;
        System.out.println ("Temperature in Fahrenheit is: "+Fahrenheit);
    }
}
```

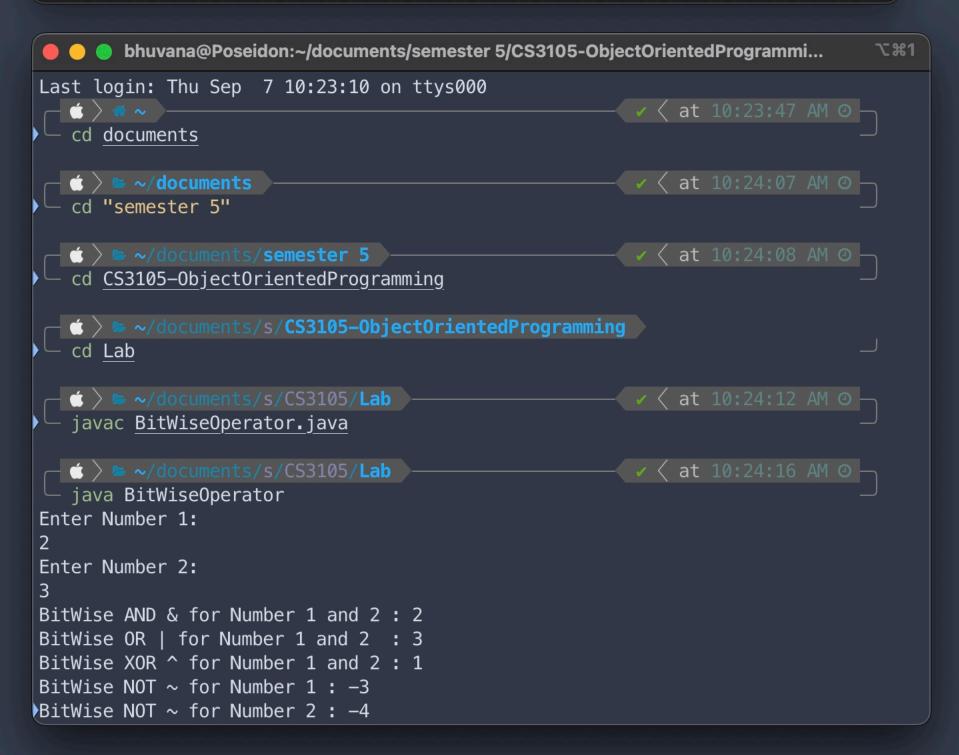


```
blitWiseOperator.java

/*
Bhuvana Kanakam, SE21UCSE035
Bitwise Operations
*/

import java.util.Scanner;
public class BitWiseOperator {
    public static void main (String[] args) {
        Scanner number = new Scanner (System.in);
        System.out.println("Enter Number 1: ");
        int num1 = number.nextInt();
        System.out.println("Enter Number 2: ");
        int num2 = number.nextInt();

        System.out.println("BitWise AND & for Number 1 and 2 : " +(num1 & num2));
        System.out.println("BitWise OR | for Number 1 and 2 : " +(num1 | num2));
        System.out.println("BitWise XOR ^ for Number 1 and 2 : " +(num1 ^ num2));
        System.out.println("BitWise NOT ~ for Number 1 : " + ~num1);
        System.out.println("BitWise NOT ~ for Number 2 : " + ~num2);
}
```



```
PrimeNumber.java
/*
Bhuvana Kanakam, SE21UCSE035
Check for Prime Number: it is a number greater than 1 and it is divided by 1 and itself only
import java.util.Scanner;
public class PrimeNumber {
       static boolean isPrime (int n) {
              if (n \ll 1)
                     return false;
              for (int i = 2; i \leftarrow Math.sqrt(n); i++)
                     if (n % i == 0){
                            return false;
              return true;
       }
       public static void main(String args[])
              Scanner number = new Scanner (System.in);
              System.out.print("Enter Number: ");
              int num = number.nextInt();
              System.out.println("Number " + num + " prime condition is : " + isPrime(num));
       }
🛑 😑 🌑 bhuvana@Poseidon:~/documents/semester 5/CS3105-ObjectOrientedProgramming/...
                                                                                      て#2
Last login: Thu Sep 7 10:21:32 on ttys001
 ( ) * ~
   cd documents
  (c) > > ~/documents

✓ ⟨ at 10:23:18 AM ②
  - cd "semester 5"

✓ ⟨ at 10:23:20 AM ②

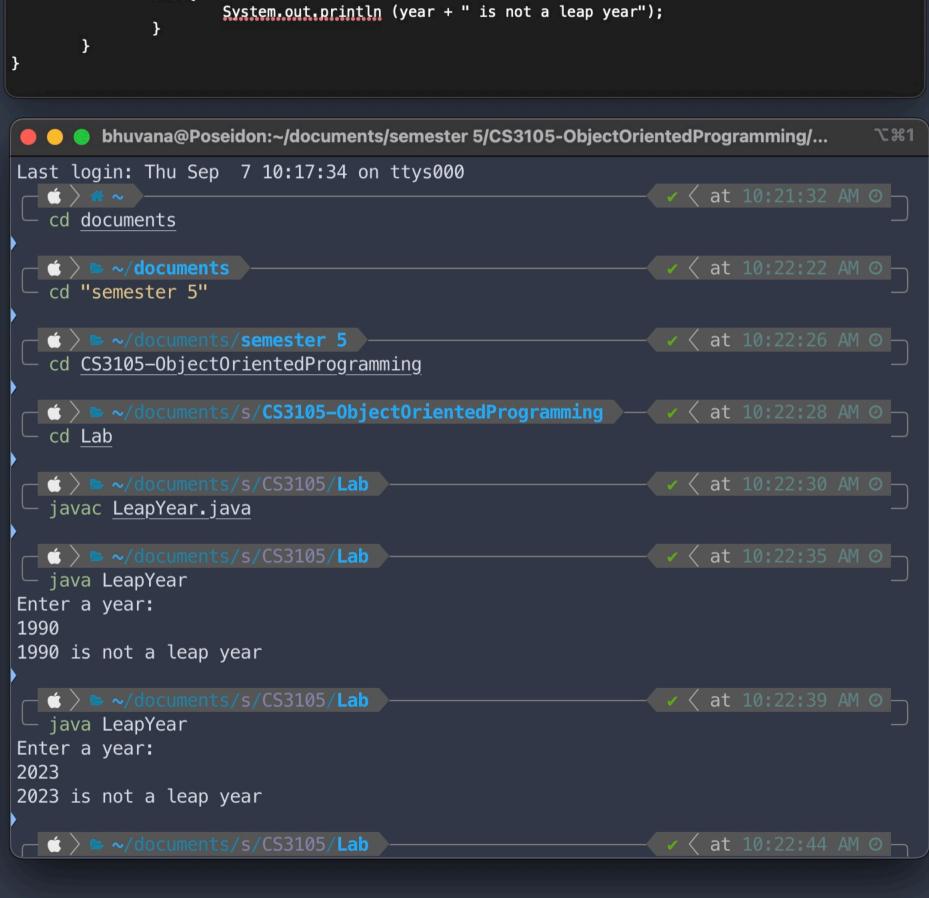
    cd CS3105-ObjectOrientedProgramming

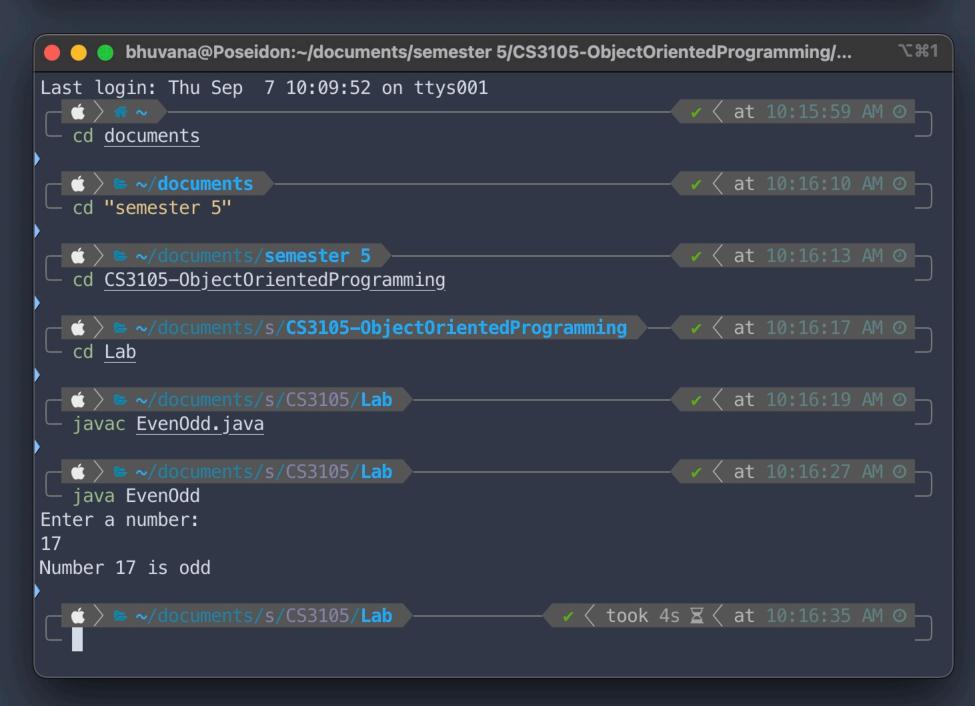
   ( > > ~/documents/s/CS3105-ObjectOrientedProgramming -
                                                               🗸 🗸 🕻 at 10:23:21 AM 👁
  cd Lab
   ( > > ~/documents/s/CS3105/Lab
                                                                 ✓ < at 10:23:24 AM ②
  javac PrimeNumber.java
  - 🖒 > 🗁 ~/documents/s/CS3105/Lab

✓ ⟨ at 10:23:28 AM ②
 — java PrimeNumber
Enter Number: 27
Number 27 prime condition is : false
  ( ) > ~/documents/s/CS3105/Lab —

✓ ⟨ at 10:23:33 AM ②
java PrimeNumber
Enter Number: 2
Number 2 prime condition is: true
```

```
LeapYear.java
/*
Bhuvana Kanakam, SE21UCSE035
Check for Leap Year
*/
import java.util.Scanner;
public class LeapYear {
        public static void main (String[] args){
                Scanner yearobj = new Scanner (System.in);
                System.out.println("Enter a year: ");
                int year = yearobj.nextInt();
                boolean isLeapYear;
                isLeapYear = (year % 4 == 0);
                isLeapYear = isLeapYear && (year % 100 != 0 || year % 4 == 0);
                if (isLeapYear) {
                        System.out.println (year + " is a leap year");
                else{
                        System.out.println (year + " is not a leap year");
                }
        }
```





```
SwapTwoNumbers.java — Edited
Bhuvana Kanakam, SE21UCSE035
Problem 1 : swap two numbers without a temporary variable in java
*/
import java.util.Scanner;
class SwapTwoNumbers {
      public static void main (String[] args) {
             Scanner number = new Scanner(System.in);
             System.out.println("Enter Number 1");
             int x = number.nextInt();
             System.out.println("Enter Number 2");
             int y = number.nextInt();
             System.out.println ("Before Swapping " + "x is " + x + ", and y is " + y);
             x = x + y;
             y = x - y;
             x = x - y;
             System.out.println ("After Swapping " + "x will be " + x + ", and y will be " + y);
      }
   🛑 🌘 bhuvana@Poseidon:~/documents/semester 5/CS3105-ObjectOrientedProgramming/...
                                                            < at 10:11:01 AM ⊙</pre>
   嵢 🔪 📂 ~/documents
   cd "semester 5"

✓ ⟨ at 10:11:05 AM ②
  cd CS3105-ObjectOrientedProgramming
   ( > > ~/documents/s/CS3105-ObjectOrientedProgramming
  cd Lab
   ✓ < at 10:11:17 AM ②
   javac SwapTwoNumbers.java
  ( > > ~/documents/s/CS3105/Lab
                                                         🗸 < at 10:12:31 AM 👁
  java SwapTwoNumbers
Enter Number 1
19
```

√ ⟨ took 5s \(\overline{\text{S}} \) ⟨ at 10:12:44 \(\overline{\text{AM}} \) @

Enter Number 2

Before Swapping x is 19, and y is 28

After Swapping x will be 28, and y will be 19

~/documents/s/CS3105/Lab

28