1. Nick Wright CSC285 Problem 7 Recursion
2. Java Code

/\*This program is capable of recursively calculating factorials.  
\* It will use helper method runRecursion to check if the factorial is larger than 0.  
\* After the factorial has been determined to be larger than 0, method recursiveFactorial will be used to calculate the factorial.  
\* This program contains class recursion and two methods, runRecursion and recursiveFactorial.\*/  
public class recursion {  
 public static void main(String[] args){  
 *runRecursion*(12);  
 *runRecursion*(25);  
 *runRecursion*(-5);  
 }//end of main  
  
 public static void runRecursion(int x){//a helper method for recursiveFactorial  
 if(x<=0){//if the number is 0 or smaller, it will print out this error message rather than running the recursive method  
 System.*out*.println("Factorial must be larger than 0!");  
 }else{  
 //it will run the recursive function  
 System.*out*.println("The factorial of " + x + " is " + *recursiveFactorial*(x));  
 }  
 }//end of runRecursion  
  
 public static float recursiveFactorial(int factorial){//the actual method of recursion for calculating factorials  
 if(factorial<=1){  
 return (float)(1.0);  
 }else{  
 return factorial \* *recursiveFactorial*(factorial-1);// method is calling upon itself  
 }//end of recursiveFactorial  
 }  
}//end of class recursion

1. Input Files

No input files were used for this assignment

1. Output Files

The factorial of 12 is 4.790016E8

The factorial of 25 is 1.5511211E25

Factorial must be larger than 0!

Process finished with exit code 0

1. Class Documentation

**public class recursion**

**recursion Data**

**recursion Functions**

public static void runRecursion(int x)

public static float recursiveFactorial(int factorial)