```
/*WAP: Write a program in java to find
Largest between two number using
packages.*///Sayyad Mohamed
Samar //231P082,32 package
compare;
public class Largest {
  public int findLargest(int a, int b) {
    if (a > b) { return
      a;
    } else {
      return b;
    }
 }
}
//The file using the above package
import compare.Largest; import
java.util.Scanner;
public class CompareNumbers {
  public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    // Prompt user for two numbers
    System.out.print("Enter the first number: "); int
    num1 = sc.nextInt(); System.out.print("Enter
    the second number: "); int num2 = sc.nextInt();
```

```
// Create an object of the Largest class from the compare package
   Largest largest = new Largest();
   // Find and print the largest number int
   result = largest.findLargest(num1, num2);
   System.out.println("The largest number is: " + result);
  }
Enter the first number: 4
Enter the second number: 7
The largest number is: 7
//WAP: Write a program in java to add two number using packages.
// Sayyad Mohamed Samar
//231P082,32
package addNumber;
public class Add {
```

// Method to add two integers

a + b;

}

public int add(int a, int b) { return

//Code which uses this package import

addNumber.Add; import

public class addNumbers {

java.util.Scanner;

```
public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter number 1: "); int
    num1 = sc.nextInt();
    System.out.println("Enter number 2: "); int
    num2 = sc.nextInt();
   // Create an instance of the Add class
    Add adder = new Add(); // Corrected this line
    // Call the add method to get the sum
    int result = adder.add(num1, num2); // Corrected this line
    System.out.println("The result is: " + result);
  }
 Enter number 1: 4
 Enter number 2: 4
 The result is: 8
 Process finished with exit code 0
//WAP:Write a program in java to compute factorial of a number using package.
// Sayyad Mohamed Samar
//231P082,32
package factorialCalculator;
public class Factorial {
```

```
public long calculateFactorial(int n) { if
    (n < 0) {
        throw new IllegalArgumentException("Factorial is not defined for negative numbers.");
    }
    long factorial = 1; for (int
    i = 1; i <= n; i++) {
    factorial *= i;
    }
    return factorial;
  }
}
//File using the above package import
factorialCalculator.Factorial; import
java.util.Scanner; public class
FactorialMain { public static void
main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    // Prompt user for a number
    System.out.print("Enter a number to calculate its factorial: "); int
    number = scanner.nextInt();
    // Create an instance of the Factorial class
    Factorial factorialCalculator = new Factorial();
    // Calculate and display the factorial
    try {
       long result = factorialCalculator.calculateFactorial(number);
       System.out.println("The factorial of " + number + " is: " + result);
    } catch (IllegalArgumentException e) {
```

```
System.out.println(e.getMessage());
}

Enter a number to calculate its factorial: 5

The factorial of 5 is: 120

Process finished with exit code 0
```