Exp-12

```
/*WAP: Write a program in java to find Largest between two number using packages.
//Vikas gupta
//231P056/10 */

package compare;
public class Largest {
   public int findLargest(int a, int b) {
      if (a > b) { return
         a;
      } else {
         return b;
      }
   }
}


import compare.Largest; import
java.util.Scanner;


public class CompareNumbers {
   public static void main(String[] args) {
      Scanner sc = new Scanner(System.in);


      System.out.print("Enter the first number: "); int
      num1 = sc.nextInt(); System.out.print("Enter
      the second number: "); int num2 = sc.nextInt();


      Largest largest = new Largest();


      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.

```
//Vikas gupta
//231P056/10
package addNumber;
public class Add {
    public int add(int a, int b) { return
    a + b;
    }
}
//Code which uses this package import
addNumber.Add; import
java.util.Scanner;

public class addNumbers {
    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();
```

```
        Add adder = new Add();


        int result = adder.add(num1, num2);


        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.

```
//Vikas gupta
//231P056/10

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;
    }
}
factorialCalculator.Factorial;
 import java.util.Scanner;
public class FactorialMain { public static void main(String[] args) {
```

```
        Scanner scanner = new Scanner(System.in);


System.out.print("Enter a number to calculate its factorial: ");
 int number = scanner.nextInt();
        Factorial factorialCalculator = new Factorial();


try {
            long result = factorialCalculator.calculateFactorial(number);

            System.out.println("The factorial of " + number + " is: " + result);

        } catch (IllegalArgumentException e) {

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

        }

    }

}
```