

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();

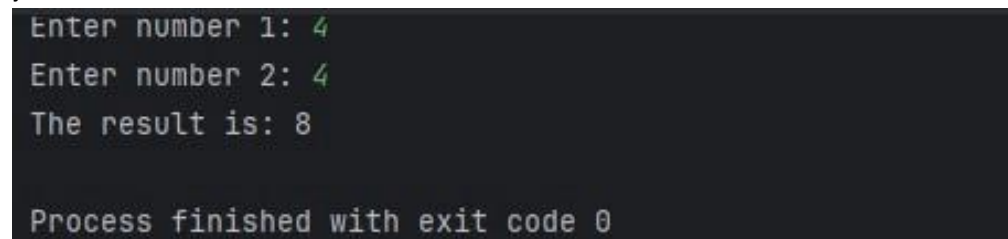
```

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());
}
}
```

```
Enter a number to calculate its factorial: 5
The factorial of 5 is: 120

Process finished with exit code 0
```