public class Factorial {

public static int factorial(int n) {

if (n < 0) {

throw new IllegalArgumentException("Factorial is not defined for negative numbers");

}

int result = 1;

for (int i = 2; i <= n; i++) {

result \*= i;

}

return result;

}

public static void main(String[] args) {

int n = 5;

System.out.println("Factorial of " + n + " is: " + factorial(n));

}

}