Case 2:

Find the formula for give expression and write the program for the given input.

Expression: 1+4+9+16+….+100

**Program: Naturalno.java**

**package** work;

**import** java.util.Scanner; //importing scanner class from java.util package

**public** **class** Naturalno { // main class

**public** **static** **int** sumsquare(**int** n)// static method

{

**return** n \* (n + 1) \* (2 \* n + 1) / 6;// formula for sum of squares of first n natural numbers

}

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int** n; // initialize input variable

Scanner s = **new** Scanner(System.***in***); // Declare the object and initialize with predefined standard input object

System.***out***.print("input : "); // printing input

n = s.nextInt();

s.close();

System.***out***.print("output : " + *sumsquare*(n)); // printing output

}

}

Output:

