Program 1 import java.io.\*; class GFG {

static int Series(int n) { int i;

int sums = 0;

for (i = 1; i <= n; i++)

sums += 1 / (i \* i); // This will still use integer division return sums;

}

public static void main(String[] args) { int n = 3;

int res = Series(n); System.out.println(res);

}

}

Program 2 import java.io.\*; class GFG {

public int factorial(int i) { if (i == 0)

return 1;

return i \* factorial(i - 1);

}

public static void main(String[] args) { int n = 4, i, j;

GFG g = new GFG();

for (i = 0; i <= n; i++) { for (j = 0; j < n - i; j++) {

System.out.print(" ");

}

for (j = 0; j <= i; j++) {

System.out.print(" " + (g.factorial(i) / (g.factorial(j) \* g.factorial(i - j))));

}

System.out.println();

}

}

}

Program 3

import java.util.Scanner; class Exercise31 {

public static void main(String[] args) { Scanner in = new Scanner(System.in); System.out.print("Input first number: "); double x = in.nextDouble(); System.out.print("Input second number: "); double y = in.nextDouble(); System.out.print("Input third number: "); double z = in.nextDouble();

if (x < y && y < z) { System.out.println("Increasing order");

}

else if (x > y && y > z) { System.out.println("Decreasing order");

}

else {

System.out.println("Neither increasing nor decreasing order");

}

in.close();

}



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