Write a program to find the sum of digits of N digit number (sum should be single digit)

CODE:

import java.util.Scanner;

public class SumOfDigits {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter an N-digit number: ");

int number = scanner.nextInt();

scanner.close();

int sum = calculateSingleDigitSum(number);

System.out.println("Sum of digits until single digit: " + sum);

}

public static int calculateSingleDigitSum(int num) {

int sum = num;

while (sum > 9) {

int tempSum = 0;

// Sum up digits of the current number

while (sum > 0) {

tempSum += sum % 10;

sum /= 10;

}

sum = tempSum;

}

return sum;

}

}

OUTPUT:

C:\javap>javac SumOfDigits.java

C:\javap>java SumOfDigits

Enter an N-digit number: 12345

Sum of digits until single digit: 6

