Write a program to given an integer n, return true if it is a power of three. Otherwise, return false.

CODE:

import java.util.Scanner;

public class PowerOfThree {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter an integer: ");

int n = scanner.nextInt();

scanner.close();

boolean isPowerOfThree = checkPowerOfThree(n);

if(isPowerOfThree)

System.out.println(n + " is a power of three.");

else

System.out.println(n + " is not a power of three.");

}

public static boolean checkPowerOfThree(int n) {

if (n <= 0) return false;

while (n % 3 == 0) {

n /= 3;

}

return n == 1;

}

}

OUTPUT:

C:\javap>javac PowerOfThree.java

C:\javap>java PowerOfThree

Enter an integer: 8

8 is not a power of three.

