package assignment22;

import java.util.Scanner;

public class Assignment22 {

public static void main(String[] args) {

int x, y;

printHeader();

x = askNumber();

y = askPower();

System.out.println("The result is: " + powerCalc(x, y));

printFooter();

}

public static void printHeader() {

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("THE POWER FUNCTION");

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("");

}

public static void printFooter() {

System.out.println("");

System.out.println("End of the program");

}

public static int askNumber() {

int number;

Scanner sc = new Scanner(System.in);

System.out.print("Enter the number: ");

number = sc.nextInt();

return number;

}

public static int askPower() {

int power;

Scanner sc = new Scanner(System.in);

System.out.print("Enter the power: ");

power = sc.nextInt();

return power;

}

public static int powerCalc(int num, int pow) {

int i;

int result = 1;

for (i = 1; i <= pow; i++) {

result = result \* num;

}

return result;

}

}