// LAB 1 ( REERSE, FACTORIAL, PALINDROME, ASSCENDING, VOWEL COUNT)

23BCE7416

import java.util.Scanner;

public class ReverseNumber {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

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

int number = sc.nextInt();

int reverse = 0;

while (number != 0) {

reverse = reverse \* 10 + number % 10;

number /= 10;

}

System.out.println("Reversed number: " + reverse);

}

}

import java.util.Scanner;

public class Factorial {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

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

int num = sc.nextInt();

long fact = 1;

for (int i = 1; i <= num; i++) {

fact \*= i;

}

System.out.println("Factorial: " + fact);

}

}

import java.util.Scanner;

public class PalindromeCheck {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter a string: ");

String str = sc.nextLine();

String reversed = "";

for (int i = str.length() - 1; i >= 0; i--) {

reversed += str.charAt(i);

}

if (str.equals(reversed)) {

System.out.println(str + " is a palindrome.");

} else {

System.out.println(str + " is not a palindrome.");

}

}

}

import java.util.Arrays;

import java.util.Scanner;

public class SortArray {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter number of elements: ");

int n = sc.nextInt();

int[] arr = new int[n];

System.out.println("Enter array elements:");

for (int i = 0; i < n; i++) {

arr[i] = sc.nextInt();

}

Arrays.sort(arr);

System.out.println("Sorted array in ascending order:");

for (int num : arr) {

System.out.print(num + " ");

}

}

}

import java.util.Scanner;

public class VowelCount {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter a string: ");

String str = sc.nextLine().toLowerCase();

int count = 0;

for (int i = 0; i < str.length(); i++) {

char ch = str.charAt(i);

if ("aeiou".indexOf(ch) != -1) {

count++;

}

}

System.out.println("Number of vowels: " + count);

}

}