12.Create a class "Amount In Words" within a user defined package to convert the amount into words. (Consider amount not to be more than 100000).

**Code:-**

**Package:**

**package com.example.converter;**

**public class AmountInWords {**

**private static final String[] units = { "", "One", "Two", "Three", "Four", "Five", "Six", "Seven", "Eight", "Nine" };**

**private static final String[] teens = { "Eleven", "Twelve", "Thirteen", "Fourteen", "Fifteen", "Sixteen", "Seventeen", "Eighteen", "Nineteen" };**

**private static final String[] tens = { "", "", "Twenty", "Thirty", "Forty", "Fifty", "Sixty", "Seventy", "Eighty", "Ninety" };**

**private static final String[] thousands = { "", "Thousand", "Million" };**

**public static String convert(int amount) {**

**if (amount == 0) {**

**return "Zero";**

**}**

**String words = "";**

**int count = 0;**

**while (amount > 0) {**

**if (amount % 1000 != 0) {**

**words = convertLessThanOneThousand(amount % 1000) + thousands[count] + " " + words;**

**}**

**amount /= 1000;**

**count++;**

**}**

**return words.trim();**

**}**

**private static String convertLessThanOneThousand(int num) {**

**if (num == 0) {**

**return "";**

**} else if (num < 10) {**

**return units[num] + " ";**

**} else if (num < 20) {**

**return teens[num - 11] + " ";**

**} else if (num < 100) {**

**return tens[num / 10] + " " + convertLessThanOneThousand(num % 10);**

**} else {**

**return units[num / 100] + " Hundred " + convertLessThanOneThousand(num % 100);**

**}**

**}**

**}**

**Main:**

**import com.example.converter.AmountInWords;**

**import java.util.Scanner;**

**public class Main {**

**public static void main(String[] args) {**

**try (Scanner scanner = new Scanner(System.in)) {**

**System.out.print("Enter the amount (not more than 100000): ");**

**int amount = scanner.nextInt();**

**if (amount < 0 || amount > 100000) {**

**System.out.println("Invalid input. Please enter an amount between 0 and 100000.");**

**} else {**

**String amountInWords = AmountInWords.convert(amount);**

**System.out.println("Amount in words: " + amountInWords);**

**}**

**}**

**}**

**}**