

1. Write a program to convert numbers into words using Enumerations with constructors, methods and instance variables.(INPUT RANGE-0 TO 99999)
EX: 36 THIRTY SIX

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import java.util.Scanner;
public class NumberToWords{
    enum Units {
        ZERO(""), ONE("one"), TWO("two"), THREE("three"), FOUR("four"), FIVE("five"),
        SIX("six"), SEVEN("seven"), EIGHT("eight"), NINE("nine"), TEN("ten"),
        ELEVEN("eleven"), TWELVE("twelve"), THIRTEEN("thirteen"), FOURTEEN("fourteen"),
        FIFTEEN("fifteen"), SIXTEEN("sixteen"), SEVENTEEN("seventeen"), EIGHTEEN("eighteen"),
        NINETEEN("nineteen");

        private final String word;

        Units(String word) {
            this.word = word;
        }

        public String getWord() {
            return word;
        }
    }

    enum Tens {
        ZERO(""), TEN(""), TWENTY("twenty"), THIRTY("thirty"), FORTY("forty"), FIFTY("fifty"),
        SIXTY("sixty"), SEVENTY("seventy"), EIGHTY("eighty"), NINETY("ninety");

        private final String word;

        Tens(String word) {
            this.word = word;
        }

        public String getWord() {
            return word;
        }
    }

    public static String converttowords(int number) {
        if (number == 0) {
            return Units.ZERO.getWord();
        }
        StringBuilder result = new StringBuilder();
        int thousands = number / 1000;
        int remaining = number % 1000;

        if (thousands > 0) {
            result.append(convert(thousands)).append(" thousand ");
        }

        result.append(convert(remaining));

        return result.toString().trim();
    }
}
```

```

private static String convert(int number) {
    StringBuilder result = new StringBuilder();

    int hundreds = number / 100;
    int remaining = number % 100;

    if (hundreds > 0) {
        result.append(Units.values()[hundreds].getWord()).append(" hundred ");
    }

    if (remaining != 0) {
        if (remaining < 20) {
            result.append(Units.values()[remaining].getWord());
        } else {
            int tens = remaining / 10;
            int units = remaining % 10;
            result.append(Tens.values()[tens].getWord());
            if (units > 0) {
                result.append(" ").append(Units.values()[units].getWord());
            }
        }
    }

    return result.toString().trim();
}

public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    System.out.print("Enter a number (0 to 99999): ");
    int number = scanner.nextInt();

    if (number < 0 || number > 99999) {
        System.out.println("Number out of range.");
    } else {
        System.out.println(number + " in words: " + converttowords(number));
    }

    scanner.close();
}
}

```