Middle East Technical University
Department of Computer Engineering

CENG 111

Fall '96

Worksheet 2

REGULATIONS

Due date: 5 December, Thursday *(Not subject to postpone)*

Submission: Electronically. You will be submitting your program source code through a file which you will name as `hw2.scm` by issuing the following single line at the Unix prompt.

```
submit111 hw1.scm
```

Resubmission is allowed (till the last moment of the due date), the last will replace the previous, provided you answer the interactive question positively.

Team: There is **no** teaming up. The homework has to be done/turned in individually.

Cheating: All parts involved (source(s) and receiver(s)) get zero.

PROBLEM

In this homework you will convert a single number N which is

$$0 \leq N \leq 9999$$

into its written expression in a human language. Except Barış Güldalı, who has do it in German (this is not a joke! we mean it), all the other members of the class will choose among English or Turkish for the language.

SPECIFICATION

- You will name your function that does the conversion as `convert`. `convert` will take exactly one argument which is the integer to be converted.
- If the input is not an integer then the function shall return the string

```
"The argument is not an integer"
```

- If the input is not an integer in the specified range then the function shall return the string

  `"In school we have not seen yet how to express this!"`

- You are allowed to write other functions that you will use in the definition of `convert`. You are free in naming them.
- You shall try to write short and concise functions. This will influence the grade you will get.

EXAMPLE

Here is a list of possible inputs and the expected corresponding results for English and Turkish. **Attention:** You will choose only one language to implement.

INPUT	OUTPUT (ENGLISH)	OUTPUT (TURKISH)
`(convert 1606)`	`onethousandsixhundredandsix`	`binaltiyuzalti`
`(convert 111)`	`onehundredandeleven`	`kirkbir`
`(convert 6199)`	`sixthousandonehundredandninetynine`	`altibinyuzdoksandokuz`
`(convert 20)`	`twenty`	`yirmi`
`(convert 0)`	`zero`	`sifir`
`(convert 1000)`	`onethousand`	`bin`
`(convert 1001)`	`onethousandandone`	`binbir`
`(convert 'eltonjohn)`	`"The argument is not an integer"`	`"The arg...not an integer"`
`(convert 10000)`	`"In school we hav...ss this!"`	`"In school we hav...ss this!"`