



# Image

CODE : Demo Course

Some sub title

Hello World

September 17, 2026

# CODE : Demo Course

Some sub title  
Hello World

September 17, 2026

# CODE : Demo Course

Some sub title

Hello World

September 17, 2026

# Some Slide Title

Examine some basic code. Take a look at the (very) basic program below to get a good idea about how some of the various aspects of the language work together, and to get an idea of how programs function.

CODE : Demo Course

Prof. Dr. S. Smart



Bern University  
of Applied Sciences

## Some Section Title

Short Sub-Title

An other section

An other section

An other section

v1.0.0

# Some Slide Title

Examine some basic code. Take a look at the (very) basic program below to get a good idea about how some of the various aspects of the language work together, and to get an idea of how programs function.

- The **#include** command occurs before the program starts, and loads libraries that contain the functions you need. In this example, **stdio.h** lets us use the **printf()** and **getchar()** functions.
- The **int main()** command tells the compiler that the program is running the function called “main” and that it will return an integer when it is finished. All-most all C programs run a “main” function.
- The **{}** indicate that everything inside them is part of the function. In this case, they denote that everything inside is a part of the “main” function.
- The **printf()** function displays the contents of the parentheses on the user’s screen. The quotes ensure that the string inside is printed literally. The **\n** sequence tells the compiler to move the cursor to the next line.



# Some Slide Title

Examine some basic code. Take a look at the (very) basic program below to get a good idea about how some of the various aspects of the language work together, and to get an idea of how programs function.

- The “;” denotes the end of a line. Most lines of C code need to end with a semicolon.
- The `getchar()` command tells the compiler to wait for a keystroke input before moving on. This is useful because many compilers will run the program and immediately close the window. This keeps the program from finishing until a key is pressed.
- The `return 0` command indicates the end of the function. This means that it will need an integer to be returned once the program is finished.<sup>1</sup>

---

<sup>1</sup>A “0” indicates that the program has performed correctly; any other number will mean that the program ran into an error.



## Exercise

Some meaningful exercise!!

**Solution.**



# An other section

# The box env

Blocktitel

Blocktext

Beispielblocktitel

Beispielblocktext

Warnungsblocktitel

Warnungsblocktext



# Shell examples

- An ordinary user shell command.
- A command on a `root shell`.
- A user shell where a command with super user perm.



# A Theorem on Infinite Sets

CODE : Demo Course

Prof. Dr. S. Smart



Bern University  
of Applied Sciences

## Theorem

*There exists an infinite set.*

Some Section Title

Short Sub-Title

An other section

An other section

An other section

v1.0.0

# A Theorem on Infinite Sets

## Theorem

*There exists an infinite set.*

## Proof.

This follows from the axiom of infinity. ☐



# A Theorem on Infinite Sets

## Theorem

*There exists an infinite set.*

## Proof.

This follows from the axiom of infinity. ☐

## Example (Natural Numbers)

The set of natural numbers is infinite.



# Some BFH table

| Header 1   | Header 2   | Header 3   |
|------------|------------|------------|
| Content 11 | Content 12 | Content 13 |
| Content 21 | Content 22 | Content 23 |

**Table:** Anzahl Personen, ausländischer Bevölkerungsanteil und Arbeitslosenquote pro Stadtteil Ende 2005 (Statistikdienste der Stadt Bern, 2006)



# An other section

# The box env

Blocktitel

Blocktext

Beispielblocktitel

Beispielblocktext

Warnungsblocktitel

Warnungsblocktext



Some Section Title

Short Sub-Title

An other section

An other section

An other section

# Shell examples

- An ordinary user shell command.
- A command on a root shell.
- A user shell where a command with super user perm.



# An other section

# The box env

Blocktitel

Blocktext

Beispielblocktitel

Beispielblocktext

Warnungsblocktitel

Warnungsblocktext



Some Section Title

Short Sub-Title

An other section

An other section

An other section

# Shell examples

- An ordinary user shell command.
- A command on a root shell.
- A user shell where a command with super user perm.

