Full title of the thesis/project

Semestral/Bachelor/Master's thesis

Given name SURNAME email@address

Department of Radio Electronics Brno University of Technology, Czechia

Brno, December 8, 2020





Unordered list

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Ordered list

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Block

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Example block

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Alert block

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Figure 1: Your caption.

Table 1: Your caption.

ID	Duration	Complexity	Score
Algo 1	0.0159	0.50	78
Algo 2	0.0453	0.65	88
Algo 3	0.8642	0.77	95

Pythagorean theorem can be written in one short equation as: $a^2 + b^2 = c^2$ where c is the longest side of the triangle, a and b are the other two sides.

Other useful equations (thank you John Napier):

$$\log_b(x^p) = p \cdot \log_b(x) \tag{1}$$

$$\log_b(x) = y$$
 exactly if $b^y = x$



C example

```
for (uint8_t i = 0; i < LENGTH; i++)
{
    // Test LSB of "segments"
    if ((segments & 0x01) == 0)
        GPIO_write_low(&PORTB, SEGMENT_DATA);
    else
        GPIO_write_high(&PORTB, SEGMENT_DATA);
    // One clock
    SEG_clk_2us();
    // Shift "segments"
    segments = segments >> 1;
}
```

Listing 1: Matlab example

```
x = 0:0.05:5;
y = sin(x.^2);
figure
% Simple line plot of x and y values
plot(x,y)
```

VHDL example

```
Entity declaration for hexadecimal to seven—segment decoder

entity hex_7seg is
port(
hex_i: in std_logic_vector(4 - 1 downto 0);
seg_o: out std_logic_vector(7 - 1 downto 0)
);
end entity hex_7seg;
```

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Question 1

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Answer 1

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