

20. Body temperature.

Filename: temperature.js

In healthy people, body temperature usually varies between 36.5 and 37.5 degrees.

- a) Create a script that determines whether a person's body temperature is below, within, or above normal body temperature.
- b) The script should read the body temperature from the user input.

Solution:

```
var temp = prompt("Enter body temperature:");

if (temp < 36.5) {
    console.log("Your temperature is to low!");
}
else if (temp > 37.5) {
    console.log("Your temperature is to high!");
}
else {
    console.log("Your temperature is normal!");
}
```

21. Height.

Filename: height.js

You should create a script that gives takes in a height in cm from the user, and prints one of the following options:

- You're low.
- You're average.
- You are tall.

The limit for being low is about height <140 cm, and the limit for being high is about height > 190 cm.

Solution:

```
var height = prompt("Enter your height in cm:");

if (height < 140) {
    console.log("You are to low.");
}
else if (height > 190) {
    console.log("You are to high.");
}
else {
    console.log("You are average.");
}
```

22. Code flow.

This is a pen and paper exercise.

Describe the program flow in this program:

```
var price = 50;
var text = prompt("What is your age?");
var age = parseInt(text);

if (age < 12 || age > 67) {
    console.log(`You have to pay ${price * 0.5} Euro.`)
}
else {
    console.log(`You have to pay ${price} Euro.`)
}
```

Solution:

Depending on what the user enters, one of two cases will occur:

1. We end up in the if block - this happens if the user has entered a number less than 12 or greater than 67.
 2. We end up in the else block - this happens if the user has written a number between 12 and 67 (12 and 67 included).
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