Topics: Switch, Loops, Arrays

Remarks:

- If/else is ideal if you have only 2 options, like if you are 18+, you can enter, else you are not allowed. Whenever we have more than 2 options, we use switch.
- -For loops are ideal if we exactly know how many iterations (Durchgänge) we are going to do. Whenever we don't know a priori (im Voraus) how many iterations we have to do, we use while loops.
- 1. Write a calculator with the following features: Add, Subtract, Multiply, Divide:
 - -Ask user what operation he wants to use (Add, Subtract etc.)
 - -Ask the user for two numbers
 - -Output the result
- 2. Write a deposit/withdraw program:
 - -Define the saldo of the user
 - -Ask the user if he wants to deposit or withdraw
 - -Ask for the amount of money
 - -Output the new saldo (When the user withdraws money, check whether he has enough money on his saldo to do so)
- 3. Write a program that:
 - -Defines an array with 5 names
 - -Asks the user for a number between 1-5 (Example: 4)
 - -Outputs the name at that positon (Example: 4th name)
- 4. Write a program that:
 - -Defines an array of length 5
 - -Asks the user 5 times to input a name (Example: Hagel Milo Tamara Carina Benno)
 - -Outputs the names in reversed order (Example: Benno Carina Tamara Milo Hagel)
- 5. Write a program that:
 - -Defines an array with 5 numbers
 - -Outputs the highest number among them
- 6. Write the same program as in 5, but this time it outputs only every second number instead of the highest one (Example: Input: 5,7,3,4,9. Output: 5,3,9)
- 7*. Write the same program as in 5, but this time it outputs all the numbers in descending order. (Example: Input: 5,7,3,4,9. Output: 9,7,5,4,3)
- 8. Write the same program as in 5, but this time it outputs the average of all the numbers.
- 9. Write a program that:
 - -Counts from 1 to 100
- 10. Write a program that:
 - -Asks the user for names until the user inputs Quit

11. Write a program that:

- -Defines a number between 1-100
- -Asks the user for a number until he inputs the right number
- -At each try of the user, it tells the user whether his number is lower or higher than the program's one (Example: Number 34, User input: 20, Output: Your number is too low, User input: 40, Output: Your number is too high, etc until User input: 34, Output: Great!)