

## Laboratory 04

1. Write a C program that prints the pyramid from Super Mario Bros scene , for any N, which denotes the number of rows.

```
  #  #
 ## ##
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```

2. Write a C program that converts degrees Fahrenheit to degrees Celsius. (The conversion formula is  $^{\circ}\text{C} = 5/9 * (^{\circ}\text{F} - 32)$ .) Use it to print a Fahrenheit-to-Centigrade table for -50 to 200 degrees Fahrenheit, in increments of 10 degrees. (Remember that the integer expression  $5/9$  gives 0, so you do not use the integer division).

3. Write a C program that provides the simple service for the bank account in PLN and in USD. The user may choose the following options from the keyboard:

W- withdraw the money

P- Put the money into account

C- check the statement

V- convert from USD to PLN or vice versa.

After selecting an appropriate option, the user should specify the amount and the currency (for W and P options), or the amount the direction of the conversion in case of the V option. Please, make sure, that the client has enough money to withdraw, or to convert. Please validate the input (make sure that the user is not giving the negative number, for example, or invalid currency). Please, use the `switch` statement.