Exercises: Conditional Statements - 01

Task 1: (if, else, elif ….)

Write a program that asks the employee for a number between 0 and 7. The number is to serve as a substitute for a day:

0 = Monday, 1 = Tuesday, ..., 7 = Sunday

The program should then display a message (depending on the input!) on the screen to the employee, whether he

a) "You have to work ...! (for Monday to Friday)
b) "Enjoy the time now ...! (for Saturday and Sunday)
c) "Wrong input...!" (for wrong number)

Task 2: (if, else, elif ….)

You have to divide your customers into **4 categories.**

Currently the following rule applies:

If the customer <18	then 'child', i.e. **may not be included**
If applies: 18 >= Customer <25	then **'Youth'.**
If applies: 25 >= customer <35	then **'YoungAdult'.**
If applies: 35 >= Customer <60	then **'MiddleAged'.**
If applies: 60 >= Customer	then **'Senior'.**

As an example, the following **output** is to be generated after the user has entered the age of the customer (e.g. 22 year) via 'input()':

=> Prolonged ouput:

The customer belongs to the 'Youth' category!

and so on.

Task 3: (if, elif, else …)

Source: **https://www.w3resource.com/python-exercises/python-conditional-exercise-2.php**

Write a Python program to convert temperatures to and from **celsius**, **fahrenheit**.

Python: Centigrade and Fahrenheit Temperatures :

The centigrade scale, which is also called the Celsius scale, was developed by Swedish astronomer Andres Celsius. In the centigrade scale, water freezes at 0 degrees and boils at 100 degrees. The centigrade to Fahrenheit conversion formula is:

Fahrenheit and centigrade are two temperature scales in use today. The Fahrenheit scale was developed by the German physicist Daniel Gabriel Fahrenheit . In the Fahrenheit scale, water freezes at 32 degrees and boils at 212 degrees.

Rule: **C = (5/9) * (F - 32)**

where F is the Fahrenheit temperature.

Write two programs that will allow you to convert a) from **celsius** to **fahrenheit** and b) from **fahrenheit** to **celsius**.

Think about how you can combine the two programs in one program using a special input, e.g. F45 (for **fahrenheit**) or C23 (**celsius**)