LIST EXERCISES

LEVEL1:

- 1. Declare an empty list
- 2. Declare a list with more than 5 items
- 3. Find the length of your list
- 4. Get the first item, the middle item and the last item of the list
- 5. Declare a list called mixed_data_types, put your(name, age, height, marital status, address)
- 6. Declare a list variable named it_companies and assign initial values Facebook, Google, Microsoft, Apple, IBM, Oracle and Amazon.
- 7. Print the list using *print()*
- 8. Print the number of companies in the list
- 9. Print the first, middle and last company
- 10. Print the list after modifying one of the companies
- 11.Add an IT company to it_companies
- 12.Insert an IT company in the middle of the companies list
- 13. Change one of the it_companies names to uppercase (IBM excluded!)
- 14. Join the it_companies with a string '#; '
- 15. Check if a certain company exists in the it_companies list.
- 16.Sort the list using sort() method
- 17. Reverse the list in descending order using reverse() method
- 18. Slice out the first 3 companies from the list
- 19. Slice out the last 3 companies from the list
- 20. Slice out the middle IT company or companies from the list

- 21. Remove the first IT company from the list
- 22. Remove the middle IT company or companies from the list
- 23. Remove the last IT company from the list
- 24. Remove all IT companies from the list
- 25. Destroy the IT companies list
- 26. Join the following lists:
- 27.front_end = ['HTML', 'CSS', 'JS', 'React', 'Redux']

 back_end = ['Node', 'Express', 'MongoDB']
- 28. After joining the lists in question 26. Copy the joined list and assign it to a variable full_stack. Then insert Python and SQL after Redux.

LEVEL2:

1. The following is a list of 10 students ages:

```
ages = [19, 22, 19, 24, 20, 25, 26, 24, 25, 24]
```

- Sort the list and find the min and max age
- Add the min age and the max age again to the list
- Find the median age (one middle item or two middle items divided by two)
- Find the average age (sum of all items divided by their number)
- Find the range of the ages (max minus min)
- Compare the value of (min average) and (max average), use abs() method
- 1. Find the middle country(ies) in the countries list
- 2. Divide the countries list into two equal lists if it is even if not one more country for the first half.
- 3. ['China', 'Russia', 'USA', 'Finland', 'Sweden', 'Norway', 'Denmark']. Unpack the first three countries and the rest as scandic countries.