# **Lab 6**

1. Create one customized lists named **grades** .
2. Find the minimum, maximum, sum and average of grades by using built-in methods of lists. Find average as floating point and integer number.
3. Find the minimum, maximum, sum and average of grades by loops without using built-in methods of lists. Find average as floating point and integer number.
4. Find the grade of a student by getting the name as input.
5. Count the number of students below, above and at the average. Use integer average.
6. Add 2 new names and grades and repeat the questions 4, 5, 6 and 7.
7. Create a **namedtuple** for Employee which has the attributes **name, address** and **dateofbirth**
8. Create two Employees and assign the attributes as you wish and print them.
9. Try to change the attributes of the employees.
10. Create a set named **set\_grades** from the LIST of GRADES you created yourself. Print this set. Add new grades and existing grades in the set and print

Create 5 inputs to the list, and then convert that list to set.

List\_grades = [1,4,5,7,10]

Set\_grades = {}

1. Remove all grades that are below integer average that is from the LIST from the **set\_grades** by loops and remove method. Hint: First find the elements to be removed and make a list. Then remove those in the list from the set.
2. Create two sets that have some common elements. Print the union, intersection, difference and symmetric difference of them by using built-in methods.
3. Repeat question 12 without using built-in methods but by using loops.
4. Create an empty dictionary named **namedgrades**.
5. Read names and integer grades of the students by using a loop until a negative value is given for grade and add each name and grade you read to this dictionary**.**
6. Find the minimum, maximum, sum and average of grades by loops. Print the name(s) of students who has/have the minimum and maximum grades. Find average as floating point and integer number.
7. Find the grade of a student by getting the name as input.
8. Count the number of students below, above and at the average. Use integer average.
9. Add 2 new names and grades and repeat the questions 18, 19 and 20.