Istanbul Medipol University

School of Engineering and Natural Sciences

Advanced Programming Laboratory Instructions

- 2 exercises will be held during laboratory sections.
- Second exercise will be done individually and grading will be done according to that performance.
- Exercises will be about the topics which have been held by Prof. Dr. Selim Akyokuş in that week.
- **Submissions after Friday 6:30 PM will not be accepted.**
- **For second exercise, any type of plagiarism is not allowed.**
- Please submit your exercises as YourDept_StudentID_Lab#.py and zip it as YourDept_StudentID_Lab#.zip
- Your codes should have comments. Codes with no comments will not receive full credit.
- For any questions,please contact me via Teams.

Exercise 1 (Quiz Question)

With the usage of NumPy library do the following requirements.

a) Create and print a NumPy array which consists of even numbers from 0 to 50(including 50).
b) Get the sum of the all elements in array and print them by using NumPy's sum() function.
c) Create a new array which consists of squared values of the array by using the array in option a).
d) Get the sum of all elements in squared array and print them.
e) From the array in option c), take the elements that are under 1000 by using Boolean masking method. (*Hint: You will print Boolean array and value array both in this option.*)