



MiniLab-5



Prof.Dr. Bahadır AKTUĞ
803400815021 Machine Learning with Python

Example - 1

Write a function which computes the Body Mass Index (BMI) is defined as the body weight (in kg) divided by the square of the body height (in meters).

Example - 2

Analyze the following program and try to guess the output without running the code.

```
def compute(a, c=5,b=4,d=3) :  
    return a*b+c-d
```

```
print(compute(4,3,2,1))  
print(compute(4,d=5))  
print(compute(4,c=5))
```

Example - 3

Write a function which takes a string as input returns the vowels in it.

Example - 4

Write a function which takes the x and y coordinates of a number of points and then prints the closest pair of points.

Example - 5

Construct a list of square roots for numbers up to 10 by using lambda function and map command.

Example - 6

Find the number of letters in each word below by using the lambda and map functions.

BME362 Introduction To Python

Example - 7

Filter out the students who were admitted in 2013 by using the lambda and filter functions.

```
numaralar = ['12290383', '11290263', '13290193',  
'14290211', '15290055', '10290403', '13290356']
```


Example - 8

Using list comprehension reverse each word below while keeping the word order.

«BME362 Introduction To Python"»

Example - 9

Find the number of distinct characters in the following sentence (Tip: set comprehension).

BME362 Introduction To Python"

Example - 10

Write a program which shows the number of each letter in a given sentence (tip: dictionary comprehension).

"Python ile Mühendislik Uygulamaları"