MiniLab-4

Prof.Dr. Bahadır AKTUĞ 803400815021 Machine Learning with Python

The student numbers of whole class and those having a scholarship from institutions A and B are given below. Find those who don't have any scholarship.

```
students = [14520,11347, 12699, 12337, 11450, 15147, 12547, 13341]

Ascholar = [11450, 15147, 12547]

Bscholar = [12337, 11450, 12547, 13341]
```

Find the result of the following operation.

```
>>> x = {"a","b","c","d","e"}
>>> y = {"h","j","c","d","k"}
>>> z = {"i","b","e","d","n"}
>>> x - y & z ^ x
```

Define an empty set and add the following items to the set.

red, 5

Modify the set A as B

$$A = \{1, 3, 4, 6\}$$
$$B = \{7, 3, 4, 6\}$$

Given the character sets below obtain English alphabet

```
>>> turkish = 'abcçdefgğhıijklmnoöprsştuüvyz'
>>> nonEnglish = 'çğıöşü'
>>> onlyEnglish = 'qxw'
```

Write a program which reads the name and surname of students from a file and writes the surnames to another file.

Write a program which formats the numbers 878.741, 7.2156e2 ve 16.8 as follows.

879 721.5600 00017

Write a program which reads the matrix given in «matrix.txt» and prints out the diagonal elements of the matrix.

The content of file «matrix.txt»

6	3	7	5	4	6
4	4	3	1	7	3
5	5	9	5	4	9
5	4	7	6	3	2
4 5 5 1 4	7	6	3	9	8
4	0	6	4	3	2

Write a program which prints the numbers 1.3457899e2, 13, 1478 as follows.

134.579 00013 1478.000