

**2nd Assignment: Report**

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**Group:** BDA-1904

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**Part 1 of the project**

**Description:**

In this assignment we must trace each of the characters (all symbols, not only letters) in the informational text and discover their probabilities from each of them. Accordingly, the most frequent characters will have a higher probability, and vice versa. We decided to execute this task through Jupyter Notebook (Python3), since this language is easier to understand.

**Programming Language:**

Jupyter Notebook (Python3)

**The responsibilities of each member:**

Altynshash: working on creating txt file: opening and reading it and finding probabilities.

Gulzhanat: working on part with creating dictionary and finding frequencies for each symbol.

**Github link:** <https://github.com/Altynshashh/Ass2_IT_A-G_BDA-1904>

**Source code:**

There is our source code:

in\_text = open('ReadingFile.txt','r')

in\_text = in\_text.read()

in\_text

str = len(set(in\_text))

print('The number of unique characters is:')

str

w\_text = list(set(in\_text))

w\_text.sort()

w\_text

our\_dict = {

symbol: len([a for a in in\_text

if a == symbol])

for symbol in w\_text

}

our\_dict

for each in our\_dict:

our\_dict[each] = round(our\_dict[each]/len(in\_text), 4)

our\_dict

**Screenshots of execution:**





