

Name Surname: Bengisu Şahin

StudentID: 152120191064

DEEP LEARNING HOMEWORK 1 REPORT

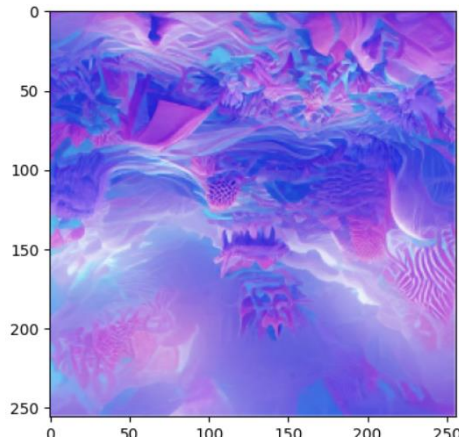
a) Download or crop the output of your program. Give comments on output of your homework, i.e., explain the graph or explain numerical values in terms of performance score.

TASK 1

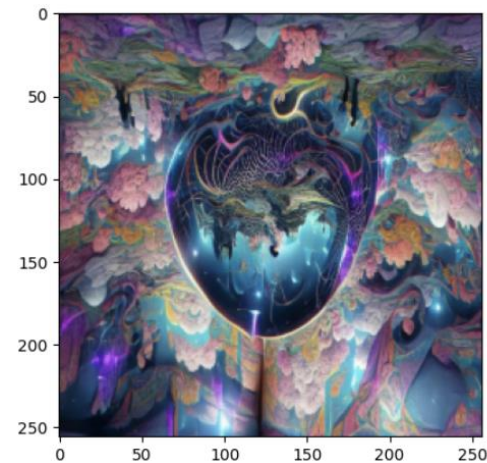
After converting the given images to 256x256x3 format, I performed the routing operations through the matrices. In the last article, I performed the cropping process requested by dividing the width of the images in half, again using the matrix, and added the two images together.

1.

*****PROBLEM 1: FLIP IMAGE1 VERTICALLY*****

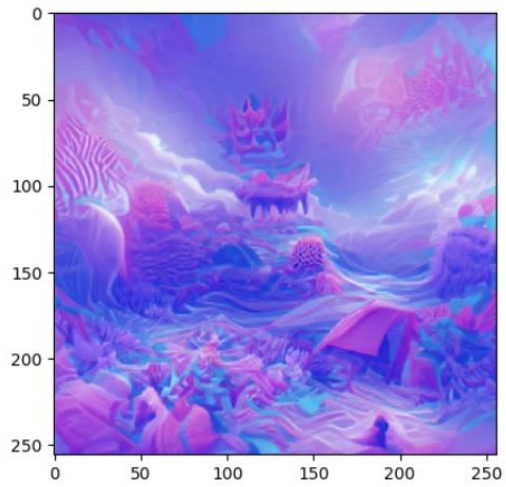


*****PROBLEM 1: FLIP IMAGE2 VERTICALLY*****

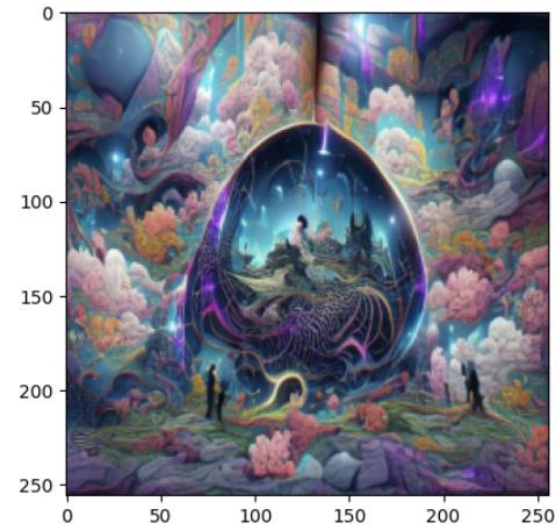


2.

*****PROBLEM 2: FLIP IMAGE1 HORIZONTALLY*****

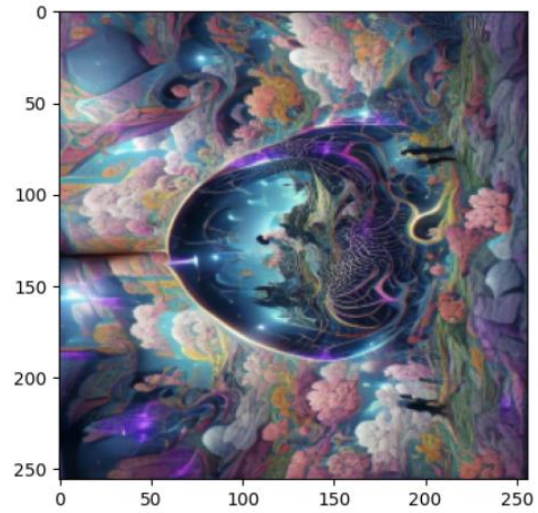


*****PROBLEM 2: FLIP IMAGE2 HORIZONTALLY*****

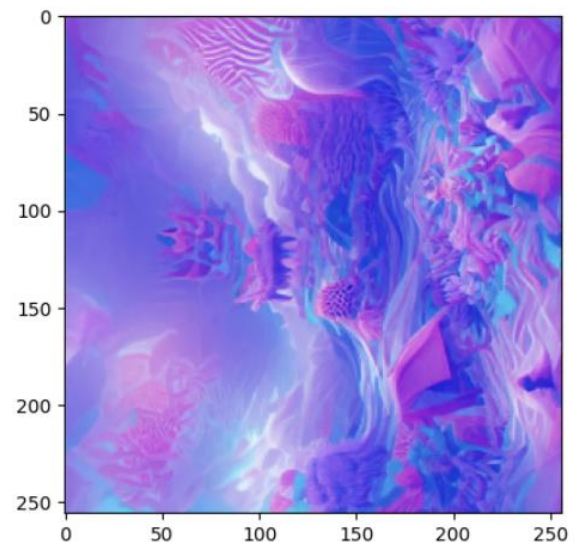


3.

*****PROBLEM 3: ROTATES IMAGE2 TO LEFT BY 90 DEGREE*****

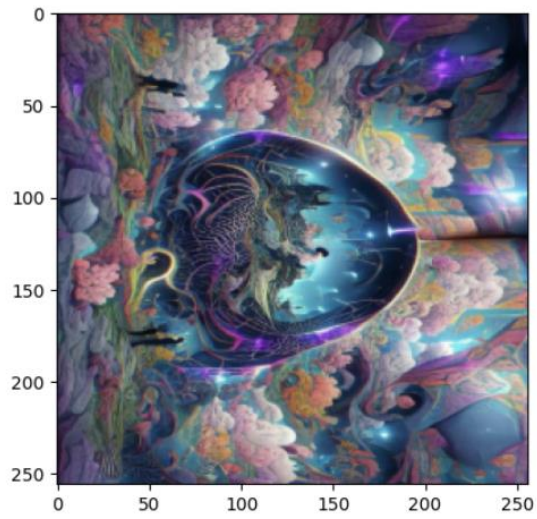


*****PROBLEM 3: ROTATES IMAGE1 TO LEFT BY 90 DEGREE*****

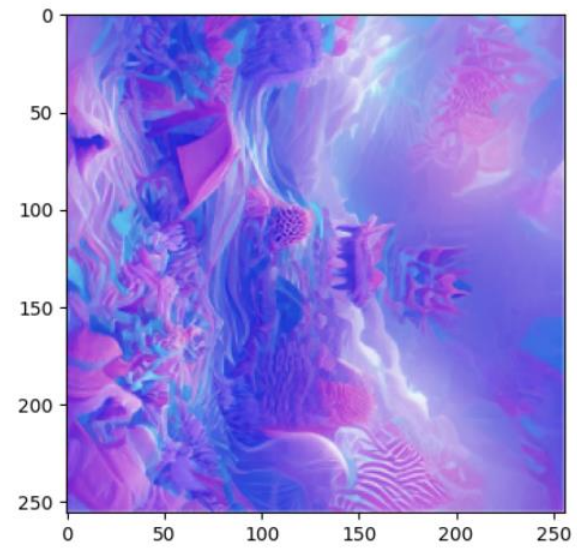


4.

*****PROBLEM 4: ROTATES IMAGE2 TO RIGHT BY 90 DEGREE*****

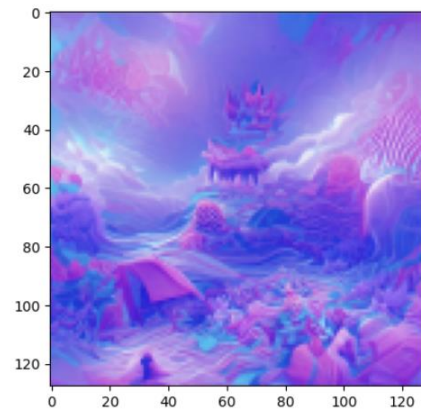


*****PROBLEM 4: ROTATES IMAGE1 TO RIGHT BY 90 DEGREE*****

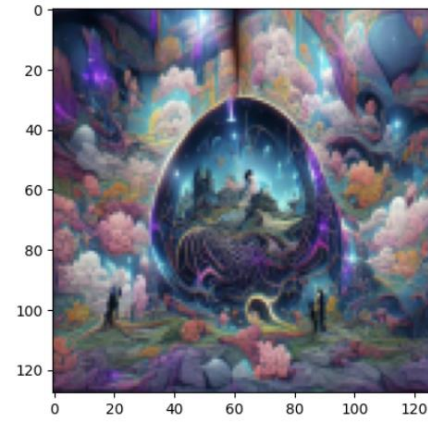


5.

*****PROBLEM 5: RESIZES INPUT IMAGE1 TO HALF BY KEEPING ASPECT RATIO*****

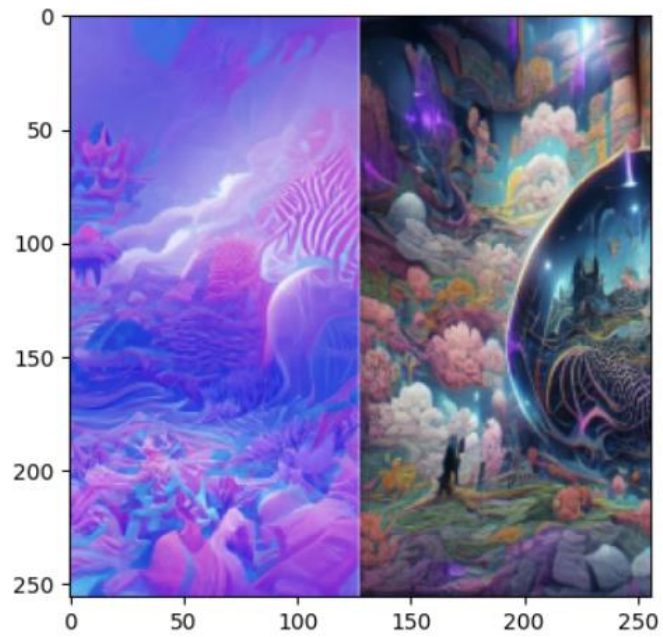


*****PROBLEM 5: RESIZES INPUT IMAGE2 TO HALF BY KEEPING ASPECT RATIO*****



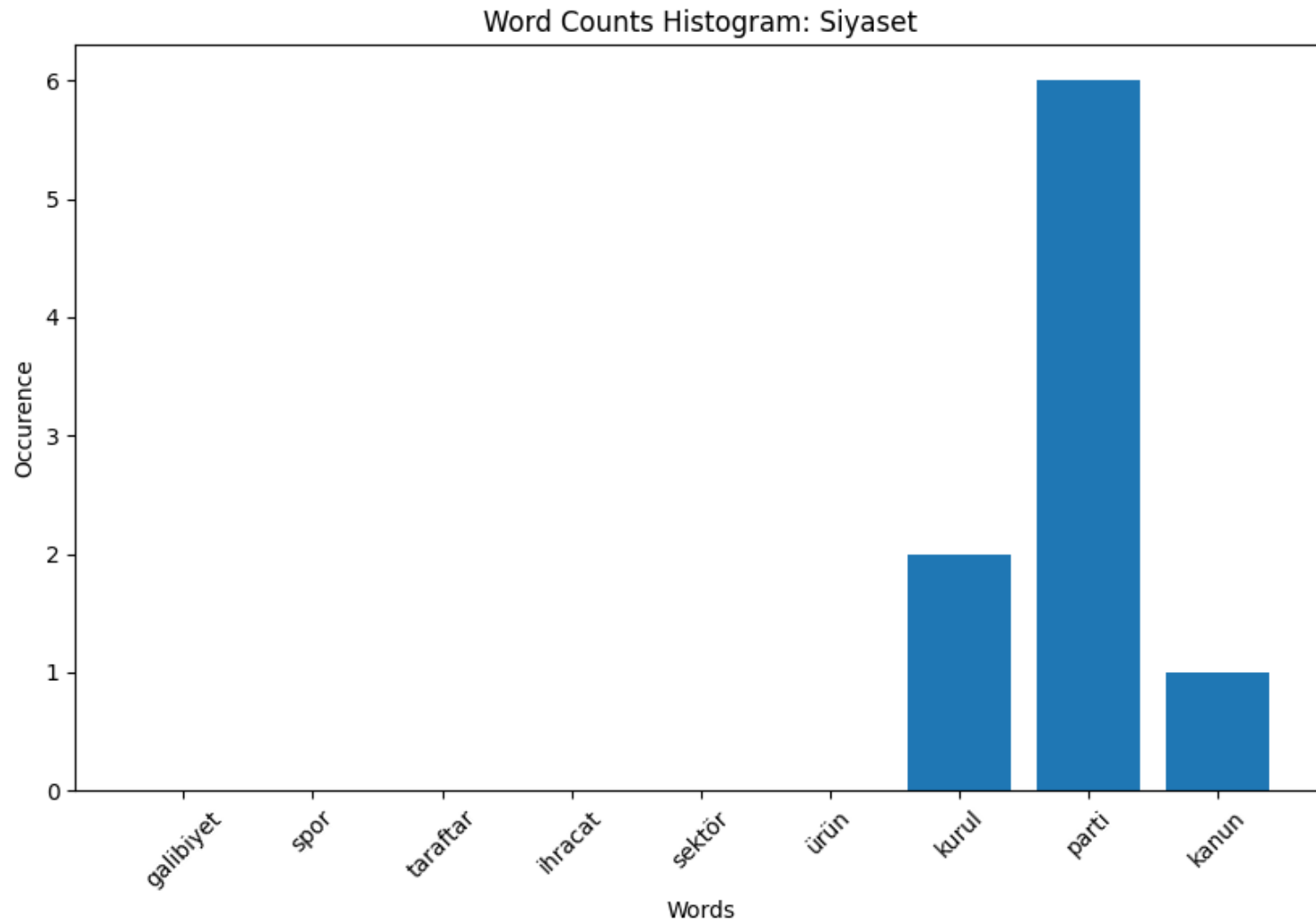
6.

*****PROBLEM 6: CROP LEFT HALF OF IMAGE1 AND RIGHT HALF OF IMAGE2, THEN MERGE THESE PARTS TO CREATE A NEW IMAGE*****

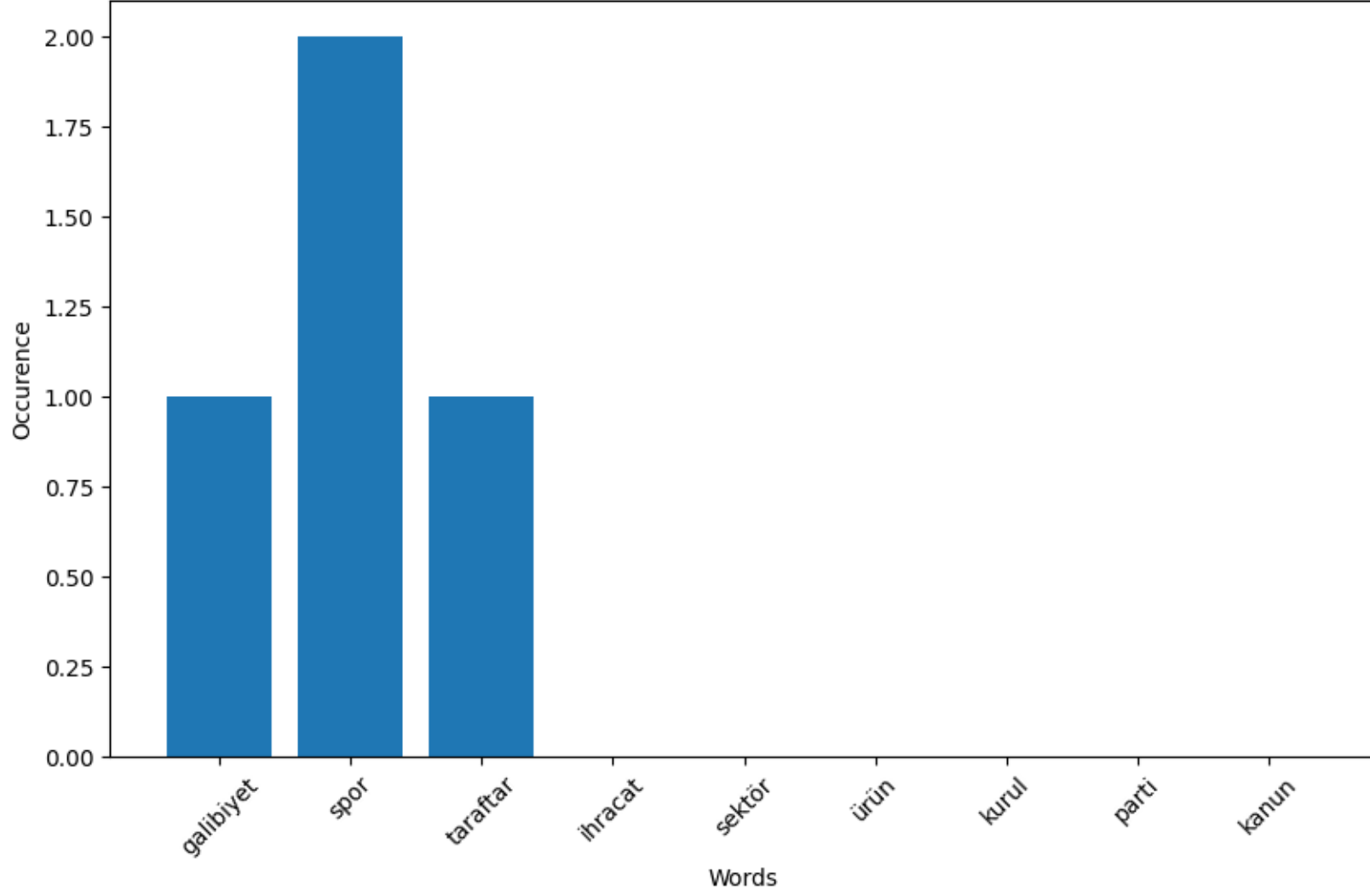


TASK 2

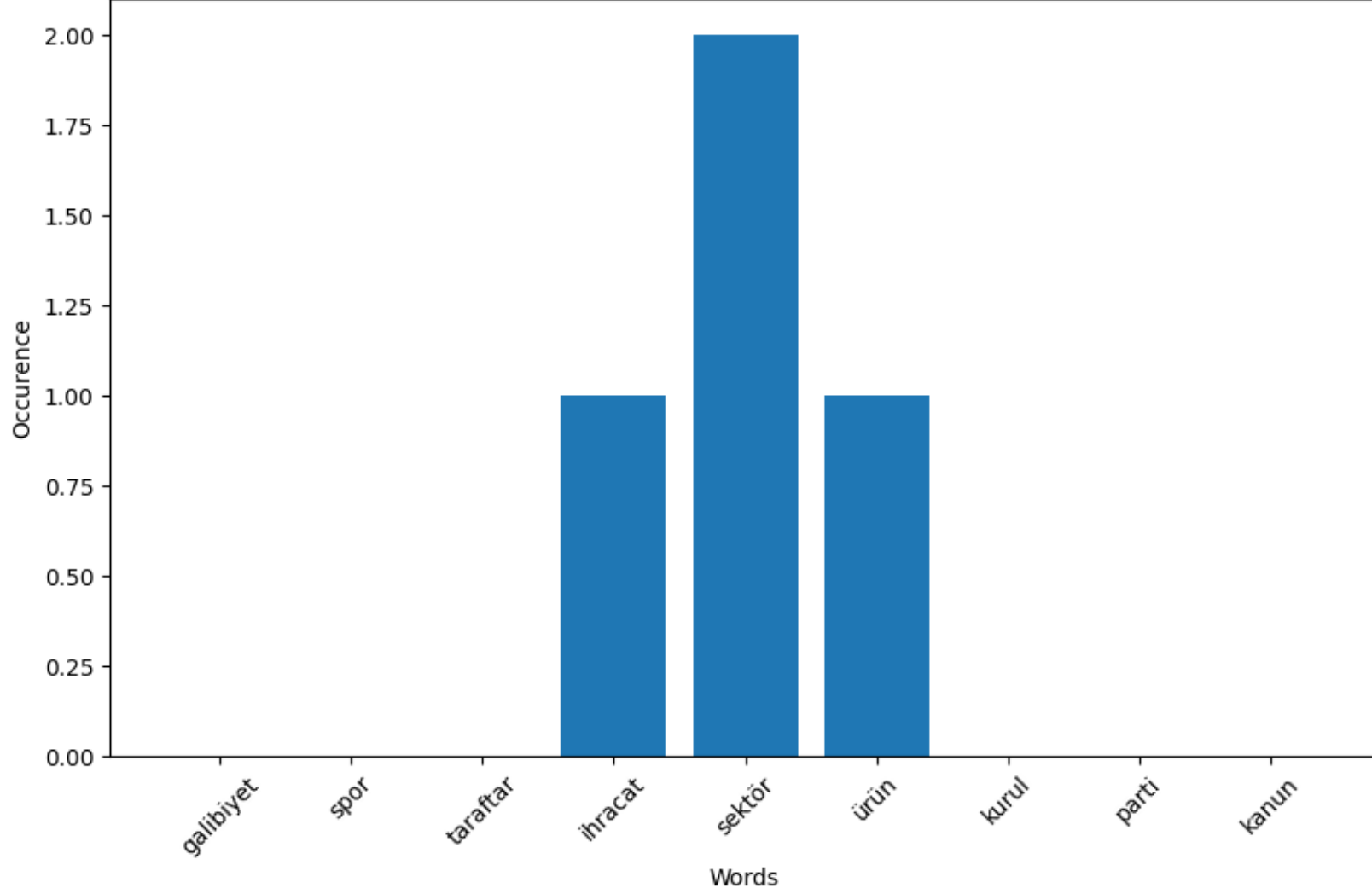
I kept the selected words in an array by reading them from the file. Then, by reading the other files, I recorded how many of the selected words were in each file and created a histogram chart.



Word Counts Histogram: Spor



Word Counts Histogram: Ekonomi



b- My Google Colab Account and my homework's code screen shot

The screenshot displays a Google Colab notebook interface. The browser address bar shows the URL: <https://colab.research.google.com/drive/10W0Qadd0A0shDCroQ2HVxcFffRFp019n>. The notebook title is "Bengisu_Sahin_152120191064.ipynb". The interface includes a sidebar with icons for file management, search, and code execution. The main area shows a code cell with the following content:

```
[ ] 120
```

*****PROBLEM 6: CROP LEFT HALF OF IMAGE1 AND RIGHT HALF OF IMAGE2, THEN MERGE THESE PARTS TO CREATE A NEW IMAGE*****

Below the text, there are two side-by-side images. The left image is a purple and blue abstract landscape. The right image is a colorful, detailed scene featuring a large, ornate structure, possibly a temple or a castle, with a large, glowing orb in the foreground. The images are displayed with a vertical axis on the left, ranging from 0 to 200.

TASK 2

```
[ ] import re
import matplotlib.pyplot as plt

#READ secilenler.txt & ASSING selectedWords array
```

The bottom of the screen shows a Windows taskbar with the date and time: 12:16, 28.10.2023.