

Experiment 5

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Subject: DWM

Class: TE4

Roll no: 46

Batch: D

Code

```
# Python 3.10.1
# Aditya Sawant

import matplotlib.pyplot as plt
def main():
    values = list(map(int,input("Enter Data:").split()))
    Xrange = [ i for i in range(int(input('Start
X:')),int(input('End X: '))+1)]
    Yrange = [ i for i in range(int(input('Start
Y:')),int(input('End Y: '))+1)]
    Xleave = int(input('Enter distance between X scale: '))
    Yleave = int(input('Enter distance between Y scale: '))
    plt.hist(values)
    plt.xticks(Xrange[:Xleave])
    plt.yticks(Yrange[:Yleave])
    plt.title("Experiment 5")
    plt.xlabel("Value Groups")
    plt.ylabel("Frequency")
    #plt.savefig("hist.png")
    plt.show()

if __name__ == '__main__':
    main()
```

Input:

Enter Data: 1 2 5 9 12 19 22 26 31 33 38 42 46 50 57 61 64 66 70

Start X: 0

End X: 100

Start Y: 1

End Y: 5

Enter distance between X scale: 10

Enter distance between Y scale: 1

Output:

