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#Q1
import numpy as np
arr=np.array([[0, 1],[2, 3]])
print("Original flattened array:\n ",arr)
maximum = arr.max()
print("Maximum value of above flattened array:\n ", maximum )
minimum = arr.min()
print("Minimum value of above flattened array:\n ", minimum)

#Q2
import numpy as np
p1 = np.array((4, 7))
p2 = np.array((2, 3))
dist=np.linalg.norm(p1-p2)
print("Euclidian Distance is: ",dist)

#Q3
import pandas as pd
import numpy as np
data = {'Name':
pd.Series(['Priya','Meena','Raju','Nila','Seeta','Geeta']),'Age':pd.Series([17, 25,
22, 30, 28, 20]), 'Rating':pd.Series([4.23,3.24,2.29,4.30,3.8])}
df = pd.DataFrame(data)
print(df.describe())

#Q4
from scipy.spatial.distance import cityblock

A = [2, 4, 4, 6]
B = [5, 5, 7, 8]

print('Manhattan distance is: ', cityblock(A, B))

#Q5
import numpy as np
import matplotlib.pyplot as plt
nums = ([0.5, 0.7, 1., 1.2, 1.3, 2.1])
bins = ([0, 1, 2, 3])
print("nums: ", nums)
print("bins: ", bins)
print("Result: ", np.histogram(nums, bins))
plt.hist(nums, bins=bins)
plt.show()

#Q6
import numpy as np
import pandas as pd
students = {'Name': pd.Series(['Priya','Meena','Raju','Nila','Seeta','Geeta']),
'Graduation Percentage': pd.Series([70, 87, 72, 91, 81, 85]),'Age':pd.Series([17,

```

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25, 22, 30, 28, 20]})  
df = pd.DataFrame(students)  
print(df.describe())
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