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PHY-1570-LE01

MAGSAT Data Lab

Program in python:

#opens text file for data output

file\_written = open(r"C:\Users\PGCC Loaner\Documents\MAGSAT Data Lab\Written\_data.txt", "r+")

#Input identity

file1 = open("C:\\Users\\PGCC Loaner\\Documents\\MAGSAT Data Lab\\80\_01\_01.dat")

#Read the first line of the data

line\_num = 0

line= file1.readline()

#Loop through data file, to read every 600th line

while line:

line\_num+= 1

if line\_num == 1 or line\_num % 600 == 0:

#write the line to the output file

file\_written.write(line)

#Read the next line from the input file

line = file1.readline()

#close input and output files

file1.close()

file\_written.close()

First 20 Lines of Output:

14181 68.296-111.378 6881.902 3572.7 2101.3 47224.9 1022

309107 82.890-167.931 6885.016 1984.3 1578.9 46153.5 2036

607966 72.005 105.071 6880.402 5602.4 164.4 47213.9 0

904859 54.001 91.758 6868.477 14308.3 718.4 44344.0 2036

1206667 35.139 85.874 6849.895 24847.4 199.7 31928.4 2033

1534036 14.418 81.455 6824.352 31729.6 -1116.7 7703.3 1021

1838302 -5.024 77.833 6798.148 28092.5 -3131.4-16928.0 6000

2138636 -24.351 74.091 6772.930 18285.4 -6646.4-31398.3 1022

2437986 -43.687 69.401 6751.453 11120.2-10454.7-36297.4 7068

2733896 -62.692 61.363 6736.605 7990.3-12465.7-38574.4 7068

3166455 -82.934 -33.164 6730.312 14912.9 800.3-41344.5 7068

3464332 -67.460 -91.664 6737.559 14667.2 9833.0-37423.9 7068

3764173 -48.340-101.898 6753.406 17938.1 8624.6-28623.9 7068

4065490 -28.921-107.074 6775.754 21590.4 6061.8-17596.5 7068

4365332 -9.651-110.936 6801.422 24682.4 4396.7 -3160.9 2036

4665420 9.507-114.490 6827.387 25050.9 3969.4 13973.6 2036

4965263 28.491-118.303 6850.703 21117.5 4566.5 29974.7 7000

5265105 47.283-123.258 6869.059 14334.4 5064.2 41342.0 0

5564701 65.714-132.400 6880.785 6763.4 4182.1 45784.1 1022

5863069 81.806-174.142 6884.937 2791.1 1438.6 46110.5 2033