

Please Read : File Handling, File Read, File Write from

https://www.w3schools.com/python/python_file_handling.asp

Reading lines of integer from File to array/list

```
with open('file') as f:
    array = []
    for line in f: # read rest of lines
        array.append([int(x) for x in line.split()])
```

String Split in Python:

```
text = 'geeks for geeks'

# Splits at space
print(text.split())

word = 'geeks, for, geeks'

# Splits at ','
print(word.split(','))

word = 'geeks:for:geeks'

# Splitting at ':'
print(word.split(':'))

word = 'CatBatSatFatOr'

# Splitting at 3
print([word[i:i+3] for i in range(0, len(word), 3)])
```

Output :

```
['geeks', 'for', 'geeks']
['geeks', 'for', 'geeks']
['geeks', 'for', 'geeks']
['Cat', 'Bat', 'Sat', 'Fat', 'Or']
```

Reading CSV File

```
import csv

# opening the CSV file
with open('Giants.csv', mode='r') as file:
```

```
# reading the CSV file
csvFile = csv.reader(file)

# displaying the contents of the CSV file
for lines in csvFile:
    print(lines)
```

Output:

```
['Organiztion', 'CEO', 'Established']
['Alphabet', 'Sundar Pichai', '02-Oct-15']
['Microsoft', 'Satya Nadella', '04-Apr-75']
['Aamzon', 'Jeff Bezos', '05-Jul-94']
```

Writing to CSV

```
import csv

# field names
fields = ['Name', 'Branch', 'Year', 'CGPA']

# data rows of csv file
rows = [ ['Nikhil', 'COE', '2', '9.0'],
         ['Sanchit', 'COE', '2', '9.1'],
         ['Aditya', 'IT', '2', '9.3'],
         ['Sagar', 'SE', '1', '9.5'],
         ['Prateek', 'MCE', '3', '7.8'],
         ['Sahil', 'EP', '2', '9.1']]

# name of csv file
filename = "university_records.csv"

# writing to csv file
with open(filename, 'w') as csvfile:
    # creating a csv writer object
    csvwriter = csv.writer(csvfile)

    # writing the fields
    csvwriter.writerow(fields)

    # writing the data rows
    csvwriter.writerows(rows)
```