

- **emptystr()**
- **part**(stringarray, integer array) returns the string array
- Try: `part(['a', 'b', 'c'], [1, 2, 3])`
- Try: string concatenation : `'practice' + '.' + 'sce'`
- string conversion to lower case (upper case) :
convstr('string', 'l')

Strings

- $a = 2, b = -1$
- $v = ['a+b', 'a*b', 'a/b']$
- Try: **eval**(v), **evstr**(v)
- **strsubst**(string, '&', 'and')
- Take a large example of a string array:

```
sVar1 = 'w';  
sVar2 = 'vehicle';  
sVar3 = 'Medium & heavy trucks and buses';  
sVar4 = ['Cars, light trucks, motorcycles' '238656707';  
'Medium & heavy trucks and buses' '11731405';  
'Water' '12479438';  
'Air' '230801';  
'Rail' '30943'];  
Try sVar1 + sVar2, convstr(sVar2)
```

- `S = 'Practice and practice only makes the lab interesting'`
- Try **`strsplit`**
- **`tokens(S)`**
- **`tokens('/home/Courses/Scilab', '/')`**
- **`strindex`**
- `k = strindex('ab+c+def', '+')`
- `phrases = strsplit(S, [12, 27, 41])`

Exercise: Do these operations on a large example.

Input/ Output Operations : An Introduction

- `A = random(5,5)`
- `mprintf ("%3.1f %4.2f %5.3f %e %d\n", A )`
- **Exercise** : `A = random(5,5)`
Extract the first 8 integers into a vector (reading row-wise)
- `mfscanf(3, fid, "%d %d %d %d")` (Repeats the reading 3 times)
- `mfscanf(-1, fid, "%d %d %d %d")` (reads till the end of file)
- `A1 = fscanfMat ("filename.txt")` (A very useful command)
- `fid = mopen('filename.txt')` (it returns the file pointer)

File Operations : An Introduction

```
data = fscanf(fid, "%d %d %d %d")
```

Reads the first 4 entries in integer format

Exercise: Open a file in gedit and create data with the first row having

Rollno Subj1 Subj2 Subj3 Average

followed by the data of each student.

Read and print the data pertaining to the first 3 students.