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## Section 1: Patient Information

Problem Statement: Creating arrays in which patient names are stored.

```
clear
clc
```

```
% Variables are all patient name strings
```

```
P1F = 'Ima';
P1L = 'Tiger';
P2F = 'Preston';
P2L = 'Holtzendorff';
P3F = 'Thomas';
P3L = 'Clemson';
P4F = 'Anna';
P4L = 'Calhoun';
```

```
% Create another patient, myself
```

```
P5F = 'Christopher';
P5L = 'Brant';
```

```
Patient_Names = {P1F P2F P3F P4F P5F; P1L P2L P3L P4L P5L}
```

```
Patient_Names =
```

```
      'Ima'      'Preston'      'Thomas'      'Anna'
'Christopher'
      'Tiger'      'Holtzendorff'      'Clemson'      'Calhoun'      'Brant'
```

## Symptom and Medicine Information

Problem Statement: Learning to create cell arrays using character strings and numerical inputs

```
% Variables in the cell array rows will show the following:
```

```
% Symptom
```

```
% Medicine
```

```
% Dose Volume [mL/dose]
```

---

```

% Dose Mass[g/dose]
% Dose Type

Meds = {'Cold' 'Flu' 'Migraine'; 'Achoo' 'Chill' 'HAche'; 3.6 5 4; 9
        16 11; 'L' 'T' 'T'}

Meds =

        'Cold'        'Flu'        'Migraine'
        'Achoo'        'Chill'        'HAche'
        [3.6000]      [      5]      [      4]
        [      9]      [     16]      [     11]
        'L'          'T'          'T'

```

## Extracting Information

Problem Statement: Extracting information from individual cells.

```

% Question a
Patient_1 = {Patient_Names{1,3} Patient_Names{2,3}}

% Question b
Flu_Med = 5 * [Meds{3,2}(1) Meds{4,2}(1)]

% Question c
Liquid = {Meds{1:5,1}}'

% Question d
% Density is in g/mL
Density_HAche = Meds{4,3}(1) / Meds{3,3}(1)

% Question e
% Density here is also in g/mL
Density_All = [(Meds{4,1}(1) / Meds{3,1}(1)) (Meds{4,2}(1) / Meds{3,2}
(1)) (Meds{4,3}(1) / Meds{3,3}(1))]

% Question f
Meds_Rearranged = [Meds{3,1:3}; Meds{4,1:3}; Density_All]

Patient_1 =

        'Thomas'        'Clemson'

Flu_Med =

        25        80

Liquid =

```

---

```
'Cold'  
'Achoo'  
[3.6000]  
[      9]  
'L'
```

```
Density_HAche =
```

```
2.7500
```

```
Density_All =
```

```
2.5000    3.2000    2.7500
```

```
Meds_Rearranged =
```

```
3.6000    5.0000    4.0000  
9.0000   16.0000   11.0000  
2.5000    3.2000    2.7500
```

```
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```