1. Use two methods to create the following 2x2 cell array.

\[
A = \begin{bmatrix}
\text{Matlab} & \text{Simulink} \\
3 & 9 \\
8 & 2
\end{bmatrix}
\]

a. How would you access the “l” in “Matlab” as a character?
b. How would you access the word “Simulink” as a character array? As a cell?
c. How would you access each number of the two numeric arrays?
d. Create a 2x3 cell array “B” with contents of your choosing and horizontally concatenate it with “A”.
e. Use the “deal” function to assign each cell in “A” to a variable of native type.

2. Use two methods to create a structure with fields: “Name”, “Year”, “ERA”, and “IP”. Fill the fields using the first row of the below table.

<table>
<thead>
<tr>
<th>Name</th>
<th>Year</th>
<th>ERA</th>
<th>IP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harang</td>
<td>2002,2003,2004</td>
<td>3.54, 4.67, 2.1</td>
<td>278, 192, 56</td>
</tr>
<tr>
<td>Coffey</td>
<td>2002,2003,2004</td>
<td>9.78, 12.1, 7.8</td>
<td>145, 267, 228</td>
</tr>
<tr>
<td>Valentine</td>
<td>2002,2003,2004</td>
<td>4.56, 1.18, 8.21</td>
<td>133, 184, 237</td>
</tr>
</tbody>
</table>

a. Create 3 more similar structures and append them to the original to create a structure array.
b. Add the field “ER” to each structure in the array, and assign a value to each using ERA = 9*ER/IP.
c. Practice accessing each element of the structure array and structures.