Q1 Create the following matrix in MATLAB: (1)

$$A = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$$

What is the MATLAB command to extract the second column of A?

Q2Write the command to convert the following matrix into a single column vector:
(1)

$$J = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{bmatrix}$$

Q 3 Write the command to sort each row of matrix K in ascending order (1)

$$K = \begin{bmatrix} 9 & 3 & 5 \\ 7 & 1 & 8 \end{bmatrix}$$

Q4 Write a command to extract all elements from matrix P that are greater than 5: (1)

$$P = \begin{bmatrix} 3 & 7 & 2 \\ 8 & 4 & 6 \end{bmatrix}$$

Q5 What will be the output of the following MATLAB code?

(1)

$$X = [3.6 \ 2.4 \ 5.9];$$

Y = round(X);

disp(Y)

(1)

Q6 What will be the output of this code?

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Q7: Write a command to delete the third column of matrix A (1)

Q 8 Write a MATLAB program that takes an array as input from the user. Removes all duplicate numbers without using built-in functions. Preserves the first occurrence of each unique element and maintains the original order. Displays the resulting array without duplicates. Uses only for and while loops to achieve this.

(8)