

1. Please use html to draw a 4 by 4 matrix for users so the users can input numbers on the matrix. Put a 'determinant' button and an output number field. Please write javascript codes to calculate the determinant of the 4 by 4 matrix if the users press the button.

2. Please draw a pyramid of stars (*). Please get input from users for how many numbers of rows for drawing a pyramid. For three rows of pyramid, the results shall be

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3. Please prepare a screen and 10 buttons of digital numbers (0,1, ..., 9) for users. The screen can show at least 10 characters. When the user input a number using the number buttons, the decimal number will be displayed on the screen. Please give the user two more buttons, one for hexadecimal and the other for octal number conversions. After the user input a decimal number, the user may press the hex conversion button to show the corresponding hexadecimal number on the display. If the user press the octal conversion button, the screen will show the corresponding octal number. The program is used as a hexadecimal/octal number converter.