

Solutions of MATLAB Quiz

1. How to enter a random matrix Z of size 3×4 with entries belonging to $[-6, 0]$

Ans: `randi([-6, 0], 3, 4)`

2. How to take a matrix Y of random size through user in a function? In the answer of this question you have to write a small code to take a random size matrix as an input from the user.

Ans

```
function [M] = entermatrix (colvec)
c=input('Enter column size of the matrix');
A=[];
for i=1:c
A(:,i)=input('enter columns of the matrix one by one');
end
A
end
```

3. What does **NaN** stands for in MATLAB?

Ans: Not a Number

4. Enter the following system of equations in the form of $\backslash(Ax=b)$, $\backslash(2x+3y=4, \backslash;5x+6y=7)$

Ans: `A=[2,3;5,6]` and `b=[4;7]`

5. Write a command to extract second column of a matrix X .

Ans: `X(:,2)`

6. How to extract last element of 1st row of a matrix M of random size.

Ans: `M(1, end)`

7. Let $\backslash(Ax=b)$ be a system of equations. Let $\backslash(B)$ be a matrix obtained by applying an elementary operation $\backslash(R_i \rightarrow R_i + 2 R_j)$ on given $\backslash(A)$. How will you perform this operation in MATLAB

Ans: `B=A; B(i,:)=A(i,:)+2*A(j,:)`

8. What is the difference between the commands **clc** and **clear all**. Answer in maximum TWO sentences ONLY

Ans: `clc` clears the command window while `clear all` clears the variables from workspace.

9. Let A and B be any two matrices such that product of A and B is well defined. Is it possible to add any column vector of A with any row vector of B ?

Ans: YES

10. What will be the value of $3 \setminus 12$?

Ans: awarded 0.5 marks to everyone