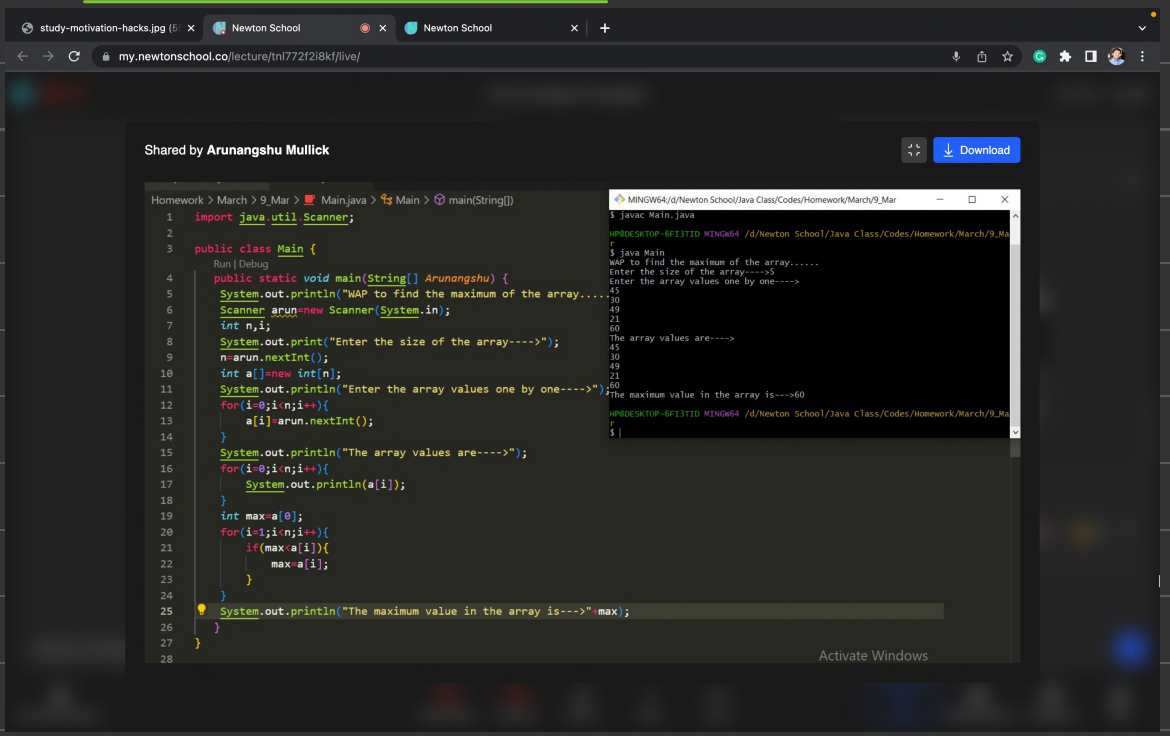
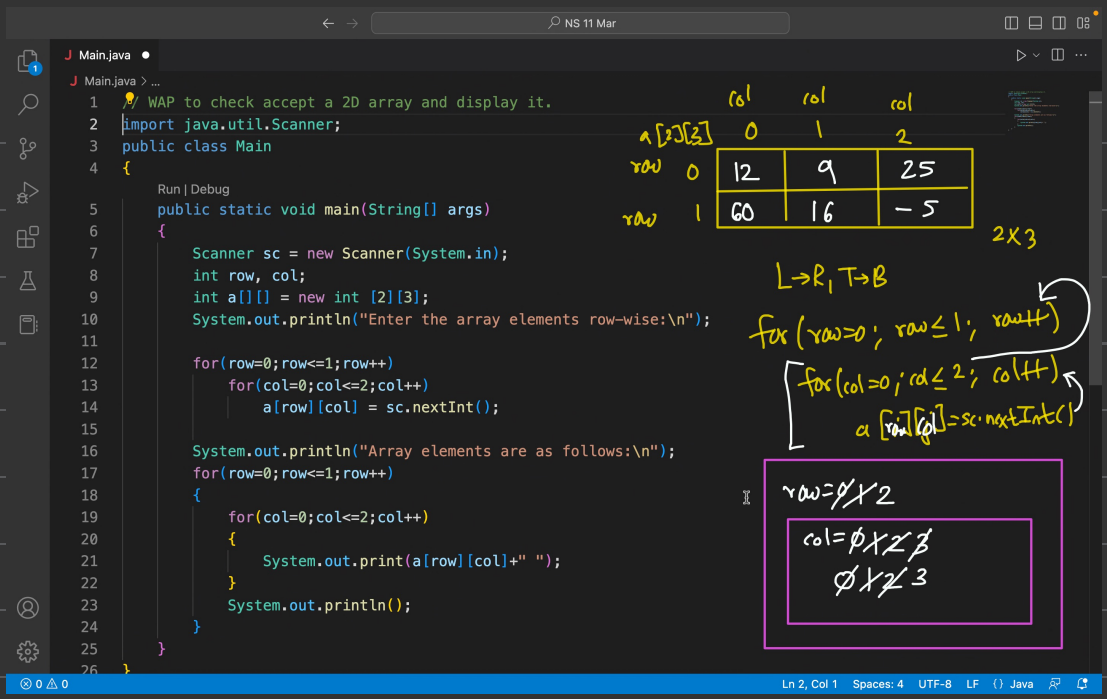
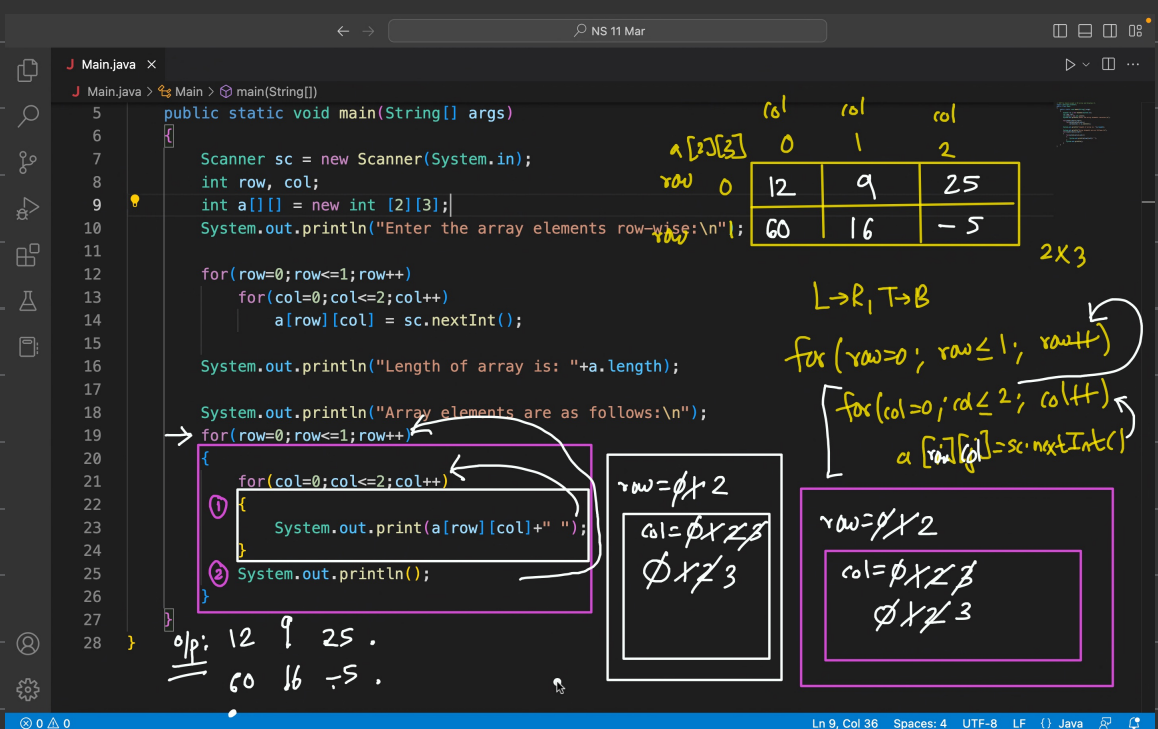
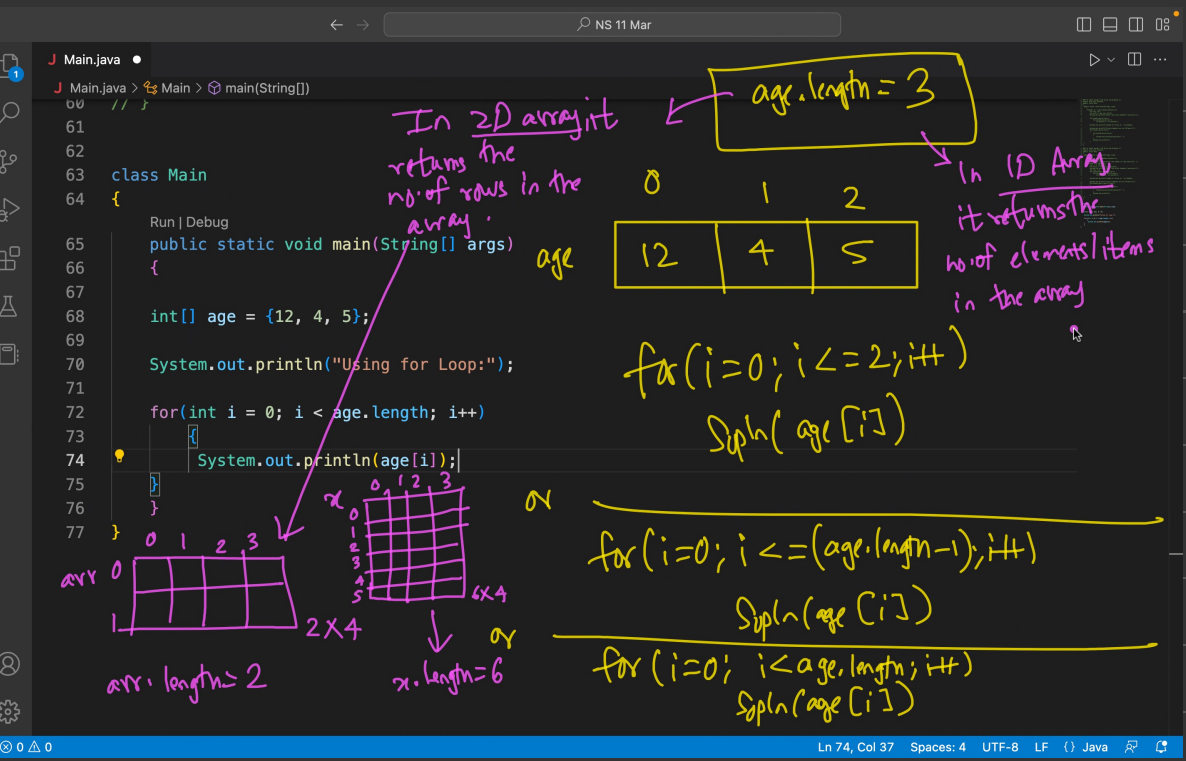
11 Mar 2023

How to find max. of an array.




Main.java
// WAP to check accept a 2D array and display it.
import java.util.Scanner;
public class Main
{
Run | Debug
public static void main(String[] args)
{
Scanner sc = new Scanner(System.in);
int row, col;
int a[][] = new int [2][3];
System.out.println("Enter the array elements row-wise:\n");
for(row=0;row<=1;row++)
for(col=0;col<=2;col++)
a[row][col] = sc.nextInt();
System.out.println("Array elements are as follows:\n");
for(row=0;row<=1;row++)
{
for(col=0;col<=2;col++)
{
System.out.print(a[row][col]+" ");
}
System.out.println();
}
}
}
a[2][3]
col 0 col 1 col 2
row 0 12 9 25
row 1 60 16 -5
2X3
L→R, T→B
for(row=0; row<=1; row++)
for(col=0; col<=2; col++)
a[row][col]=sc.nextInt()
row=0 X 2
col=0 X 2 3
0 X 3
Ln 2, Col 1 Spaces: 4 UTF-8 LF Java


Main.java
Main.java > Main > main(String[])
public static void main(String[] args)
{
Scanner sc = new Scanner(System.in);
int row, col;
int a[][] = new int [2][3];
System.out.println("Enter the array elements row-wise:\n");
for(row=0;row<=1;row++)
for(col=0;col<=2;col++)
a[row][col] = sc.nextInt();
System.out.println("Length of array is: "+a.length);
System.out.println("Array elements are as follows:\n");
for(row=0;row<=1;row++)
{
for(col=0;col<=2;col++)
{
System.out.print(a[row][col]+" ");
}
System.out.println();
}
}
}
a[2][3]
col 0 col 1 col 2
row 0 12 9 25
row 1 60 16 -5
2X3
L→R, T→B
for(row=0; row<=1; row++)
for(col=0; col<=2; col++)
a[row][col]=sc.nextInt()
row=0 X 2
col=0 X 2 3
0 X 3
o/p: 12 9 25.
60 16 -5.
Ln 9, Col 36 Spaces: 4 UTF-8 LF Java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Main.java
Main.java > Main > main(String[])
class Main
{
Run | Debug
public static void main(String[] args)
{
int[] age = {12, 4, 5};
System.out.println("Using for Loop:");
for(int i = 0; i < age.length; i++)
{
System.out.println(age[i]);
}
}
}
age.length = 3
In 1D Array it returns the no. of elements/items in the array
In 2D array it returns the no. of rows in the array.
age
0 1 2
12 4 5
for(i=0; i<=2; i++)
Sop(age[i])
or
for(i=0; i<=(age.length-1); i++)
Sop(age[i])
or
for(i=0; i<age.length; i++)
Sop(age[i])
arr
2X4
arr.length = 2
x
6X4
x.length = 6
Ln 74, Col 37
Spaces: 4
UTF-8
LF
Java

Adding matrices

Given $\mathbf{A} = \begin{bmatrix} 4 & 8 \\ 3 & 7 \end{bmatrix}$ and $\mathbf{B} = \begin{bmatrix} 1 & 0 \\ 5 & 2 \end{bmatrix}$, let's find $\mathbf{A} + \mathbf{B}$.

We can find the sum simply by adding the corresponding entries in matrices $\mathbf{A}$ and $\mathbf{B}$. This is shown below.

$$\mathbf{A} + \mathbf{B} = \begin{bmatrix} 4 & 8 \\ 3 & 7 \end{bmatrix} + \begin{bmatrix} 1 & 0 \\ 5 & 2 \end{bmatrix} = \begin{bmatrix} 4+1 & 8+0 \\ 3+5 & 7+2 \end{bmatrix} = \begin{bmatrix} 5 & 8 \\ 8 & 9 \end{bmatrix}$$

Up next: exercise