

Assignment -12 (11-04-2023)

(Multi Dimension Array)

Q1. WAP in Java to create two classes such as TwoDArray and OneDArray.

Members of TwoDArray class are:

- a) One 2D array.
- b) Constructor to allocate memory of size (2 X n) for the array.
- c) Input data into the Array.
- d) Display the array elements in row wise.
- e) Split this array into two different arrays and store them in the array available in two different objects of class OneDArray.
- f) Add the arrays(m X n matrices) of two objects of TwoDArray class.
- g) Multiply the arrays(m X n matrices) of two objects of TwoDArray class.

Members of OneDArray class are:

- a) One 1D array.
- b) Constructor to allocate memory of size (n) as the column size of TwoDArray class.
- c) Show the array.

Q2. Modify the above program to create same (m) no of *array of objects* of OneDArray as the no of rows available in the array (m X n) of TwoDArray. Then add another method in TwoDArray class that can distribute all rows of the 2D array of TwoDArray class into each object of OneDArray class.