

A. Consider two string `string1=" hi my name Python"`, `string2="python is very fast "`. Perform the following

1. Element wise concatenation
2. Display string 1 two times and string 2 five times
3. Display string 1 having length 50(filled with *)
4. Capitalize first letter of string
5. Capitalize first letter of every word
6. Capitalize all letter of string
7. Convert to lower case
8. Convert to uppercase
9. Replace the word hi with hello and is with was.
10. Join the string with separator ---

B. consider two array (let arr1,arr2) of size 4x4. Perform the following

`arr1+((arr2*arr1)/arr1)-arr1` (display result of each step)

C. consider an array of size 6x6. Perform the following

1. Sort the array
2. Sort columnwise
3. Sort Rowwise
4. Sort Diagonalwise
5. Search the element =8
6. Find min and max of array
7. Find min and max column wise(display index and element)
8. Check all the element is zero
9. Check any element is zero

D. Consider an array of size 1920x2100. Split the array having size 120x100. Find the number of splitted array.

E. Create a 4X2 integer array and find its class, datatype, shape, size, number of bytes, dimension.

F. consider an 4x4 array. Find rowwise and columnwise

1. mean
2. median
3. variance
4. standard deviation