HW01

1. Do you know my name?

> My name is Brian.
>
> $$\begin{pmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{pmatrix}$$

2. Do you know my age?

> My age is 21.

Code Snippet 1

```python
# Python program for reversal algorithm of array rotation

# Function to reverse arr[] from index start to end
def rverseArray(arr, start, end):
    while (start < end):
        temp = arr[start]
        arr[start] = arr[end]
        arr[end] = temp
        start += 1
        end = end-1

# Function to left rotate arr[] of size n by d
def leftRotate(arr, d):
    n = len(arr)
    rverseArray(arr, 0, d-1)
    rverseArray(arr, d, n-1)
    rverseArray(arr, 0, n-1)

# Function to print an array
def printArray(arr):
    for i in range(0, len(arr)):
        print (arr[i])

# Driver function to test above functions
arr = [1, 2, 3, 4, 5, 6, 7]
leftRotate(arr, 2) # Rotate array by 2
printArray(arr)

# This code is contributed by Devesh Agrawal
```

Code Snippet 2

```python
# Python program to find N largest
# element from given list of integers

# Function returns N largest elements
def Nmaxelements(list1, N):
    final_list = []

    for i in range(0, N):
        max1 = 0
```

```
        for j in range(len(list1)):
            if list1[j] > max1:
                max1 = list1[j];

        list1.remove(max1);
        final_list.append(max1)

    print(final_list)

# Driver code
list1 = [2, 6, 41, 85, 0, 3, 7, 6, 10]
N = 2

# Calling the function
Nmaxelements(list1, N)
```