Assignment - 7

1A.

```
arr = [1,2,3,4]
sum=0
for i in arr:
    sum=sum+i
print(sum)
```

2A.

```
arr = [1,2,3,4]
largest=0
for i in arr:
    if (i>largest):
        largest=i
print(largest)
```

3A.

```
def rotateArray(arr, n, d):
    temp = []
    i = 0
    while (i < d):
        temp.append(arr[i])
        i = i + 1
    i = 0
    while (d < n):
        arr[i] = arr[d]
```

```python
        i = i + 1

        d = d + 1

    arr[:] = arr[: i] + temp

    return arr

arr = [1, 2, 3, 4, 5, 6, 7]

print("Array after left rotation is: ", end=' ')

print(rotateArray(arr, len(arr), 2))
```

4A.

```python
def splitArr(arr, n, k):

    for i in range(0, k):

        x = arr[0]

        for j in range(0, n-1):

            arr[j] = arr[j + 1]


        arr[n-1] = x


arr = [12, 10, 5, 6, 52, 36]

n = len(arr)

position = 2


splitArr(arr, n, position)


for i in range(0, n):

    print(arr[i], end = ' ')
```

5A.

```python
def isMonotonic(A):
    return (all(A[i] <= A[i + 1] for i in range(len(A) - 1)) or
        all(A[i] >= A[i + 1] for i in range(len(A) - 1)))
A = [6, 5, 4,22,1]
print(isMonotonic(A))
```