Assignment 7.1

Q1.

Write a function to find moving average in an array over a window:

Test it over [3, 5, 7, 2, 8, 10, 11, 65, 72, 81, 99, 100, 150] and window of 3.

Answer :

import numpy as np

def moving\_average(a, n=3):

z=a.size

mvavg = []

for i in range((z - n +1)):

cumsum = 0

j=i

while j <= ((i+n-1)):

#for j in range((i+n-1)):

cumsum = (cumsum + a[j])

#print(" chk " , j," - ",cumsum)

j=j+1

mvavg.append(cumsum/n)

return np.asarray(mvavg)

arr = np.array([3, 5, 7, 2, 8, 10, 11, 65, 72, 81, 99, 100, 150])

moving\_average(arr)

