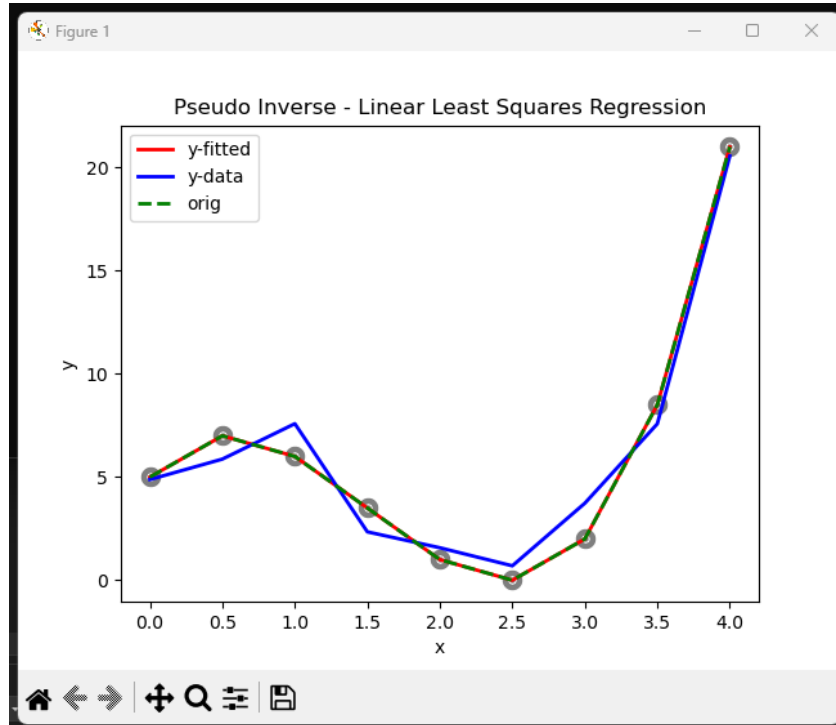


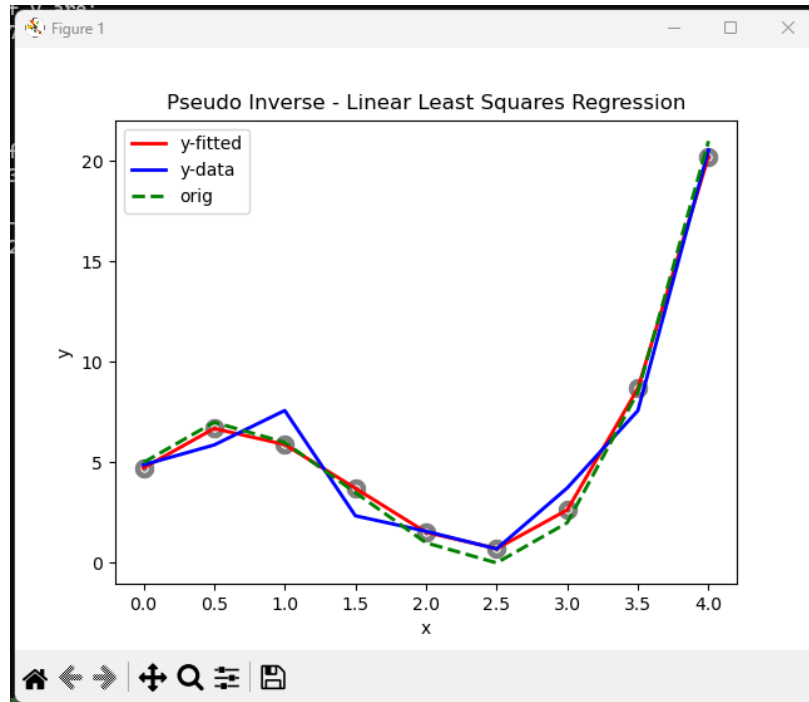
## ASSIGNMENT06

### PROBLEM#1

#### OUTPUT 1



#### OUTPUT 2



### OUTPUT 3

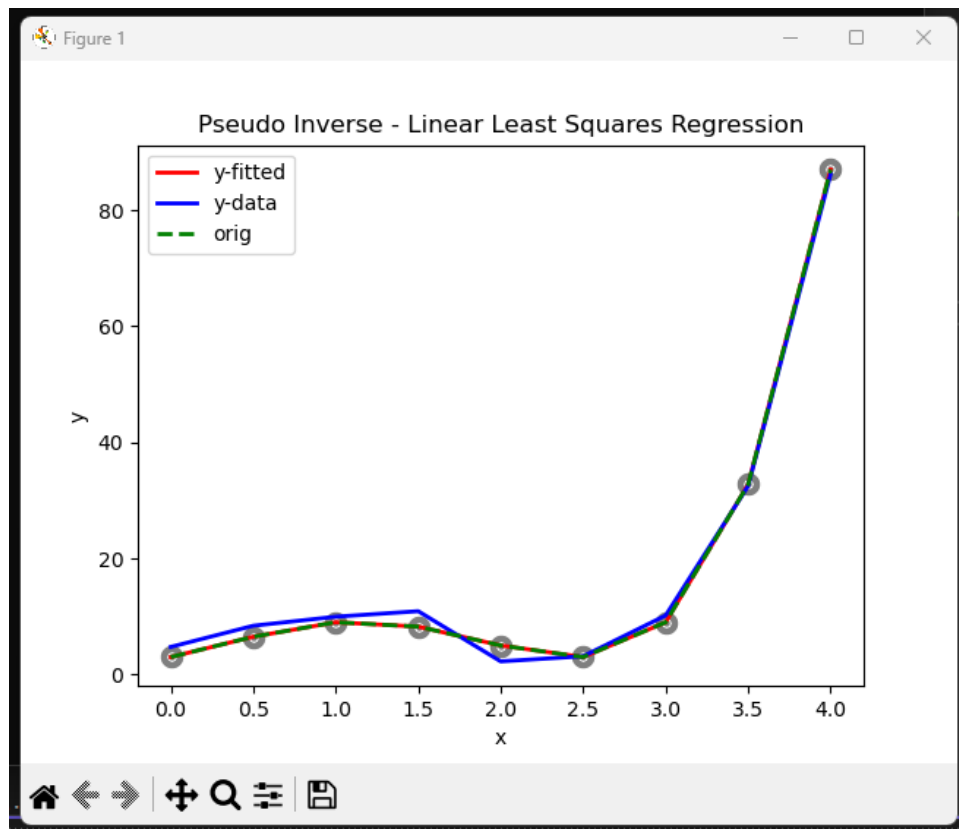
```
C:\Windows\system32\cmd.e: X + v

values of y are:
[ 5.  7.  6.  3.5  1.  0.  2.  8.5 21. ]
[[  9.    18.    51.   162.   ]
 [ 18.    51.   162.  548.25 ]
 [ 51.   162.  548.25 1930.5 ]
 [162.  548.25 1930.5 6983.8125]]
beta_coefficients are:
[ 4.72932161  7.59959999 -8.27008642  1.83483718]

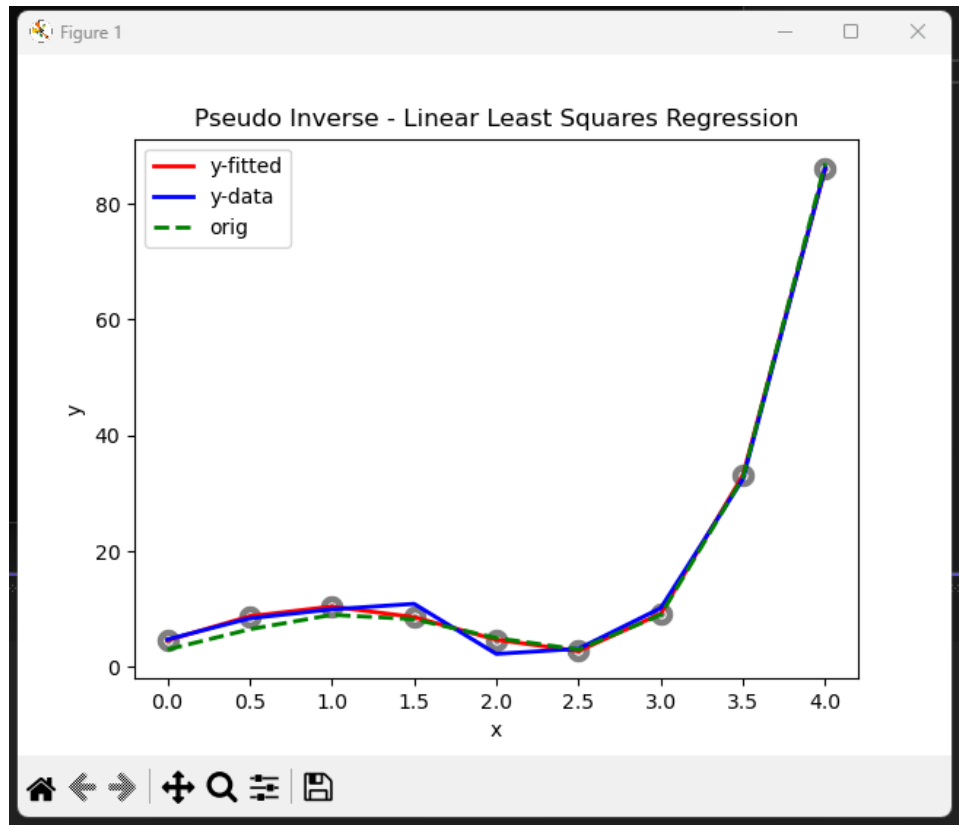
-----beta_coeffs-----
[ 4.72932161  7.59959999 -8.27008642  1.83483718]
```

### PROBLEM#2

#### OUTPUT#1



## OUTPUT#2



## OUTPUT#3

```
C:\Windows\system32\cmd.e: X + v

values of y are:
[ 3.  6.5  9.  8.25  5.  3.  9.  32.75  87. ]
[[9.00000000e+00 1.80000000e+01 5.10000000e+01 1.62000000e+02
 5.48250000e+02]
 [1.80000000e+01 5.10000000e+01 1.62000000e+02 5.48250000e+02
 1.93050000e+03]
 [5.10000000e+01 1.62000000e+02 5.48250000e+02 1.93050000e+03
 6.98381250e+03]
 [1.62000000e+02 5.48250000e+02 1.93050000e+03 6.98381250e+03
 2.57613750e+04]
 [5.48250000e+02 1.93050000e+03 6.98381250e+03 2.57613750e+04
 9.64242656e+04]]
beta_coefficients are:
[ 4.59420341  8.81496738  1.80572548 -6.45645461  1.68192908]
-----beta_coeffs-----
[ 4.59420341  8.81496738  1.80572548 -6.45645461  1.68192908]
```