12] Numpy .linaly sub-library System of linear equations np. array [[dtype = np.dtype (float)) b= np. airay ([-10,0,17], dtype= np. dtype

(float) print ("Matrix A:") print (A)
print ("In Array b:") Matrix A: Array b:

```
print (f"shape of A: [np.shape(A)]")
print (f"Shape of b: [np. shape (b)]")
```

Shape of A: (3,3) Shape of b: (3,)

x = np. linalg. solve (A, b)
print (f" solution: (23")

Solution: [4.-2.]

d = np. linalg. det(A)
print (f" determinant of matrix A: (d:, 2f3")

Determinant of matrix A: -60.00

(Non - zero / Non Singula)

If a system has no unique solution it will output the following linAlg Error

Ling LinAlg Error: Singular Matrix