Sania Bibi

Task # 11

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● Statics_with_NumPygy X ● Unear_Alegetins_with_NumPygy > ...

1 import name is not name in the statics_with_NumPygy > ...

1 import name is not name in the statics_with_NumPygy > ...

2 if least of an array
4 or intit("bear")
5 arr = np_array([1, 2, 3, 4, 5])
6 nean = nc_array([1, 2, 3, 4, 5])
8 shean of a matrix
10 net = np_array([1, 2], (3, 4], (5, 6]))
11 nean = np_array([1, 2], (3, 4], (5, 6]))
12 print("end)
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15 print("end)
16 print("bealan")
17 arr = np_array([1, 2, 3, 4, 5])
18 nedian = np_array([1, 2, 3, 4, 5])
19 print("end)
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```

```
Linear_Algebra_with_NumPy.py ×
E: > Bytewise Fellowship > Task_11 > code_files > 🌵 Linear_Algebra_with_NumPy.py > ...
  1 import numpy as np
  3 # 2x2 matrix
  4 print("matrix")
5 A = np.array([[1, 2], [3, 4]])
 6 print(A)
7 print("----
 9  # determinant of A
10  print("Determinant of matrix")
11  det = np.linalg.det(A)
       print("----")
       inv = np.linalg.inv(A)
 18 print(inv)
       print("----")
       # eigenvalues and eigenvectors of A
print("Eiganvalues and Eigenvectoes of matrix")
       eigvals, eigvecs = np.linalg.eig(A)
print("Eigan vales:", eigvals)
print("Eigan vectors:", eigvecs)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

[Running] python -u "e:\Bytewise Fellowship\Task_11\code_files\Linear_Algebra_with_NumPy.py"
matrix
[[1 2]
[3 4]]
Determinant of matrix
-2.0000000000000000004
Inverse of matrix
[[-2. 1.]
[ 1.5 -0.5]]
Eiganvalues and Eigenvectoes of matrix
Eigan vales: [-0.37228132 5.37228132]
Eigan vectors: [[-0.82456484 -0.41597356] [ 0.56576746 -0.90937671]]
[Done] exited with code=0 in 0.306 seconds
```