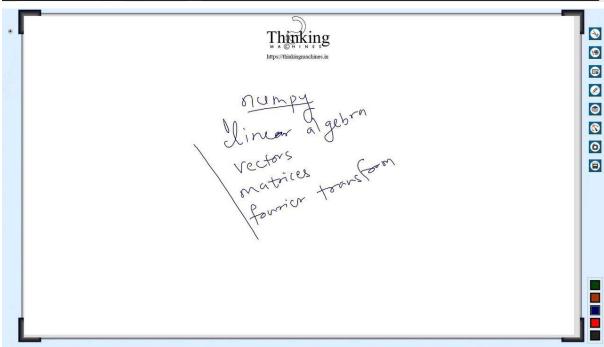
```
a=numpy.array([[10],[20],[3],[50]])
b=numpy.array([[30],[40],[14],[150]])
print('a',a)
print('b',b)
c=numpyu
                                              D
                                                                                                             Ln 6, Col 9 100% Windows (CRLF) UTF-8
C:\thinkingmachines.in>notepad eg1.py
 C:\thinkingmachines.in>py eg1.py
[[10]
[20]
[3]
[50]]
C:\thinkingmachines.in>notepad eg1.py
C:\thinkingmachines.in>py eg1.py
File "eg1.py", line 4
print('a',a)
SyntaxError: invalid syntax
```

- o ×

import numpy

C:\thinkingmachines.in>notepad eg1.py

C:\thinkingmachines.in>



```
| Topic State |
```

Ln 1, Col 1 100% Windows (CRLF) UTF-8

```
C:\thinkingmachines.in>py eg1.py
a [10 20 3 50]
b [ 30 40 14 150]
a+b [ 40 60 17 200]
a-b [ -20 -20 -11 -100]
C:\thinkingmachines.in>
```

```
import numpy
a=[10,5]
b=[5,20]
c=numpy.cross(a,b)
print('axb',c)
                                                                                                                                                       Ln 2, Col 4 100% Windows (CRLF) UTF-8
import numpy

a=[10,5]

b=[5,20]

# (10*20) - (5*5)

# 200 - 25

# 175

C=numpy cross(a,b)
                                                                            I
 c=numpy.cross(a,b)
print('axb',c)
```

Ln 6, Col 6 100% Windows (CRLF) UTF-8

```
import numpy
a=[10,5]
b=[5,20]
# (10*20) - (5*5)
# 200 - 25
# 175
        c=numpy.cross(a,b)
print('axb',c)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ln 6, Col 6 100% Windows (CRLF) UTF-8
  | Page 1-Notepool | Page 1-Notepool | Page 1-Notepool | Page 1-Notepool | Page 1-Note 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1
c=numpy.cross(a,b)
print('axb',c)
a=numpy.array([10,5])
b=numpy.array([5,20])
c=numpy.cross(a,b)
print('axb',c)
```

Ln 8, Col 1 100% Windows (CRLF) UTF-8

```
import numpy
a=[10,5]
b=[5,20]
# (10*20) - (5*5)
# 200 - 25
# 175
# 175
c=numpy.cross(a,b)
print('axb',c)
a=numpy.array([10,5])
b=numpy.array([5,20])
c=numpy.cross(a,b)
print('axb',c)
                                                                                                                                                                 Ln 11, Col 1 100% Windows (CRLF) UTF-8
C:\thinkingmachines.in>py eg1.py
axb [ 460 -900 -5]
 C:\thinkingmachines.in>_
```

D

Ln 5, Col 15 100% Windows (CRLF) UTF-8

```
C:\thinkingmachines.in>py egl.py
axb [ 460 -900 -5]
C:\thinkingmachines.in>notepad egl.py
C:\thinkingmachines.in>py egl.py
a.b 380
C:\thinkingmachines.in>notepad egl.py__
```

```
| To be Noted to Note | Note |
```

Ln 9, Col 1 100% Windows (CRLF) UTF-8

```
C:\thinkingmachines.in>py egl.py
<class 'numpy.ndarray'>
a.b 380
C:\thinkingmachines.in>notepad egl.py
C:\thinkingmachines.in>notepad egl.py
C:\thinkingmachines.in>py egl.py
<class 'list'>
<class 'numpy.ndarray'>
a.b 380
C:\thinkingmachines.in>notepad egl.py
C:\thinkingmachines.in>py egl.py
<class 'numpy.ndarray'>
a.b 380
a.b 380
C:\thinkingmachines.in>py egl.py
<class 'numpy.ndarray'>
a.b 380
a.b 380
C:\thinkingmachines.in>notepad egl.py
C:\thinkingmachines.in>notepad egl.py
C:\thinkingmachines.in>notepad egl.py
C:\thinkingmachines.in>notepad egl.py
C:\thinkingmachines.in>notepad egl.py
<class 'numpy.ndarray'>
a.b 380
a.b 380
C:\thinkingmachines.in>notepad egl.py
</class 'numpy.ndarray'>
a.b 380
c:\thinkingmachines.in>notepad egl.py
</class 'numpy.ndarray'>
a.b 380
a.b 380
C:\thinkingmachines.in>notepad egl.py

- 20 x

- 20 x
```

```
import numpy
a=numpy.array([10,20,30])
b=numpy.add(a,100)
print('a+100',b)
c=numpy.subtract(a,20)
print('a-20',c)
d=numpy.dot(a,100)
print('a.100',d)
                                                                                                                                                                                                                                             Ln 9, Col 1 100% Windows (CRLF) UTF-8
import numpy
a=numpy.array([10,20,30])
b=numpy.add(a,100)
print('a+100',b)
c=numpy.subtract(a,20)
print('a-20',c)
d=numpy.dot(a,100)
print('a.100',d)
#e=numpy.cross(a,10) ----> wrong
```

Ln 10, Cel 1 100% Windows (CRLF) UTF-8

import numpy

- D

import numpy coefficient=[2,3,4,5,10] polynomial=numpy.poly1d(coefficient) print(type(polynomial)) print(polynomial)

```
C:\thinkingmachines.in>py egl.py
<class 'numpy.polyld'>
4 3 2
2 x + 3 x + 4 x + 5 x + 10
92
C:\thinkingmachines.in>cls

### C:\thinkingmachines.in>cls

### C:\thinkingmachines.in>cls
```

```
### 17 Provided To be a first two states of the first
```

```
import numpy
coefficient=numpy.array([2,3,4,5,10])
polynomial=numpy.poly1d(coefficient)
print(type(polynomial))
print(polynomial)
x=2
x=2
result=polynomial(x) print(result)
                 1
                                                                                                                                     Ln 2, Cel 1 100% Windows (CRLF) UTF-8
import numpy
coefficient=numpy.array([2,3,4,5,10])|
polynomial=numpy.poly1d(coefficient)
print(type(polynomial))
print(polynomial)
x=2
result=polynomial(x) print(result)
                 1
                                                                                                                                Ln 2 Col 38 100% Windows (CRLF) UTF-8
```

```
c:\thinkingmachines.in>py egl.py
<class 'numpy.polyid'>
4 3 2
2 x + 3 x + 4 x + 5 x + 10

C:\thinkingmachines.in>

c:\thinkingmachines.in>

c:\thinkingmachines.in>

import numpy

coefficient=numpy.array([2,3,4,5,10])
polynomial=numpy.polyid(coefficient)
print(type(polynomial))
print(polynomial)
x=2
result=polynomial(x)
print(result)
```

Ln 2, Col 38 100% Windows (CRLF) UTF-8

1

```
import numpy
coefficient=numpy.array([2,0,4,0,10])
polynomial=numpy.poly1d(coefficient)
print(type(polynomial))
print(polynomial)
x=2
result=polynomial(x)
print(result)
```

1

Ln 1, Col 1 100% Windows (CRLF) UTF-8