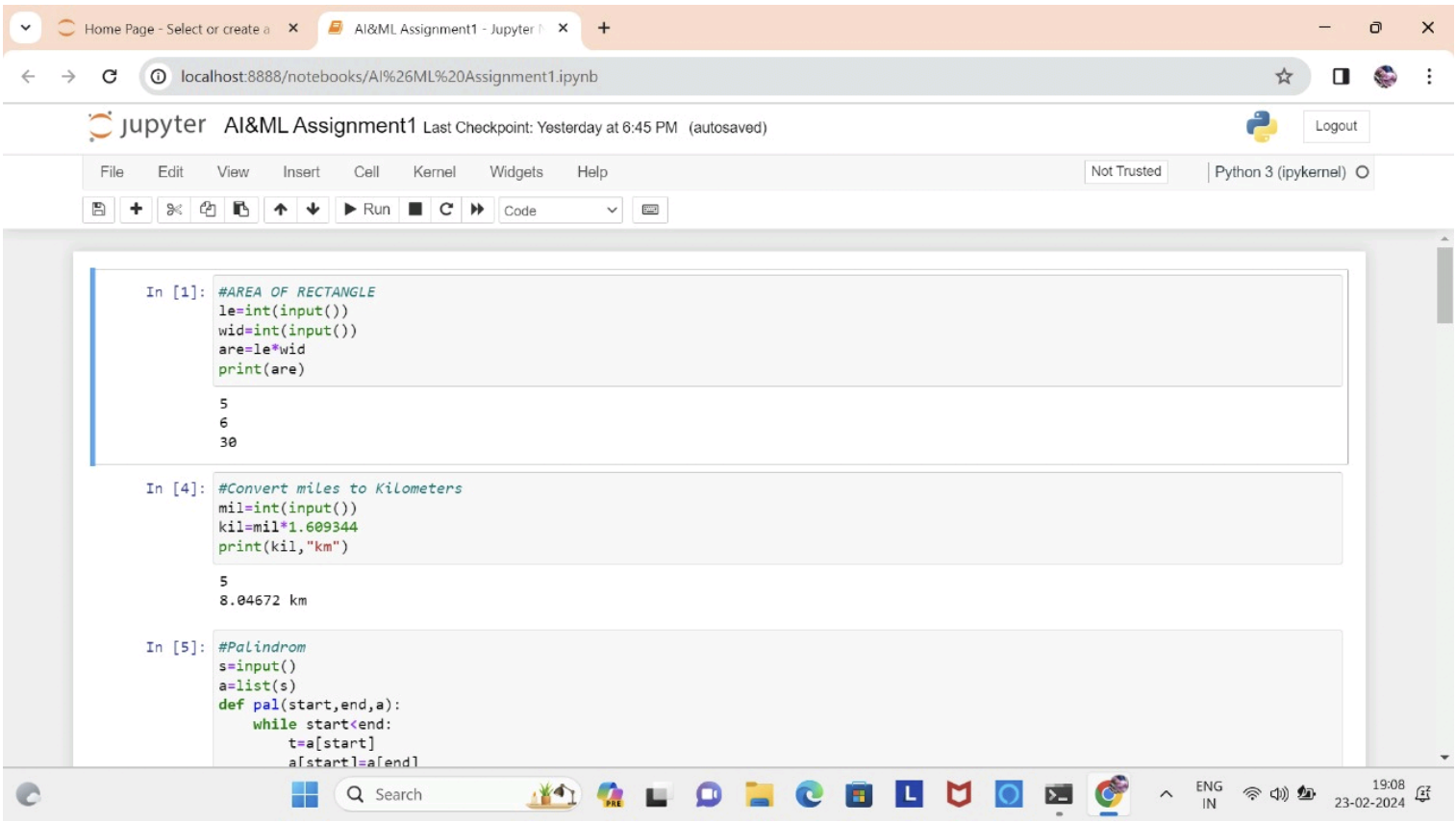
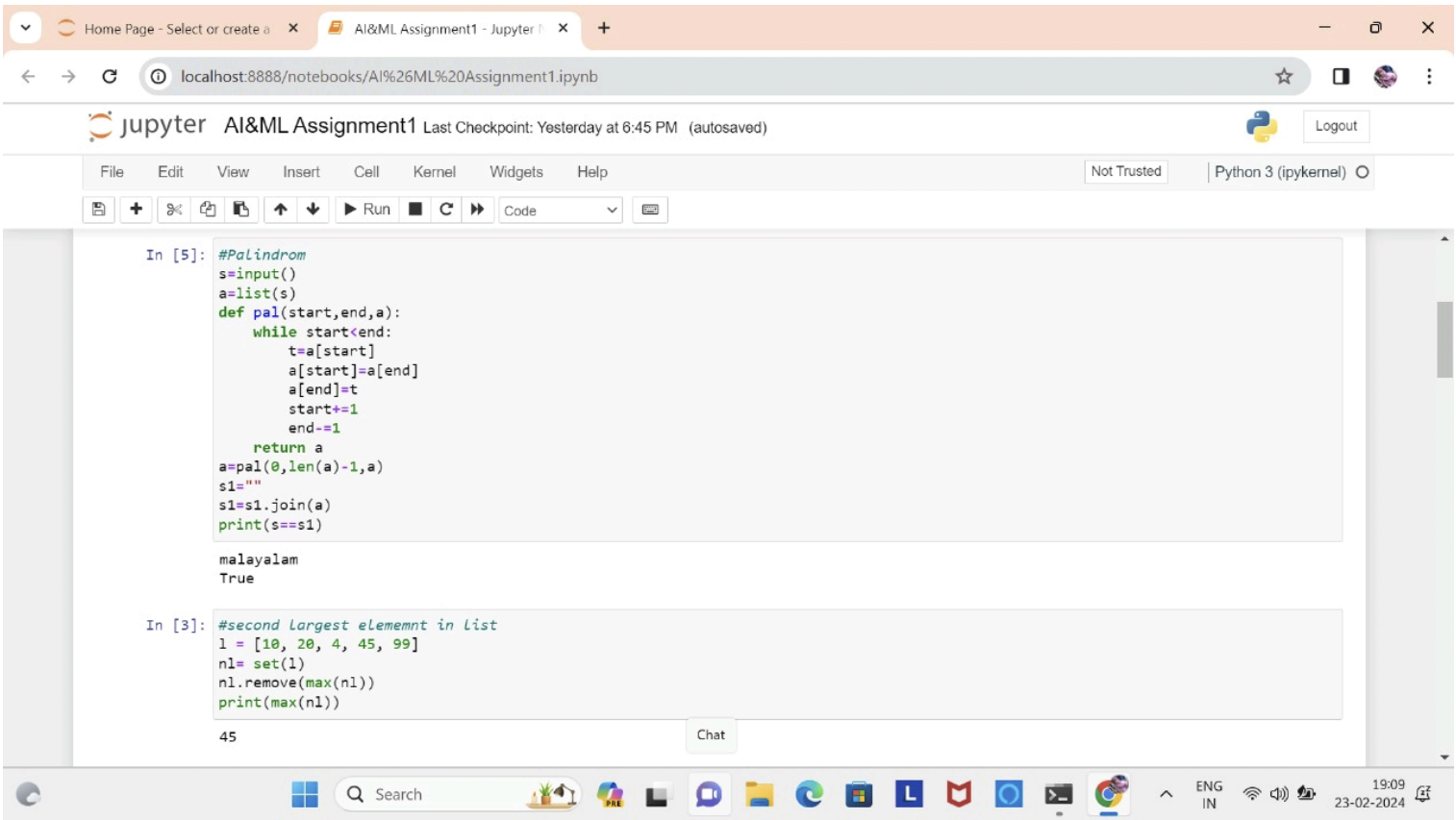
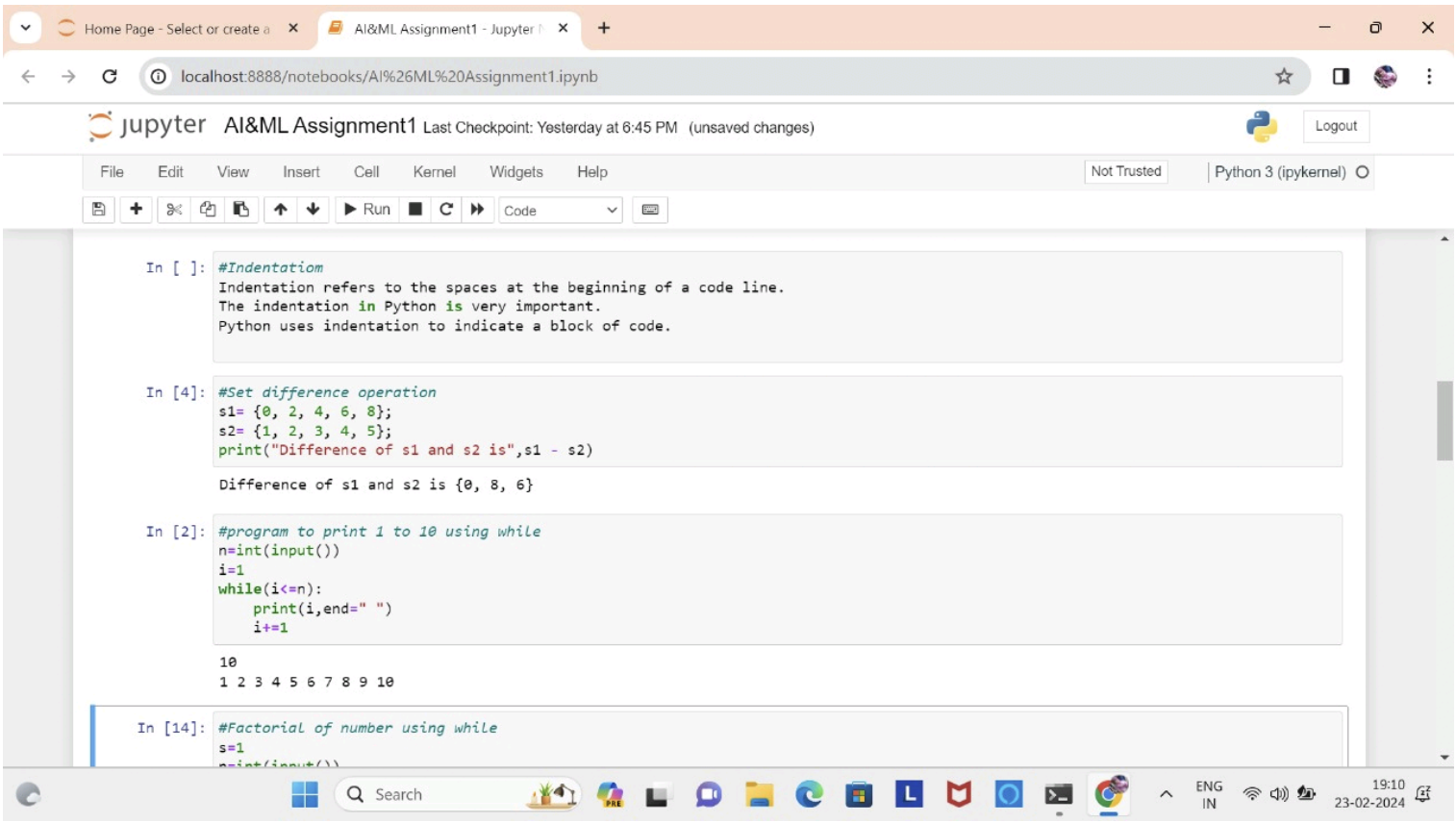
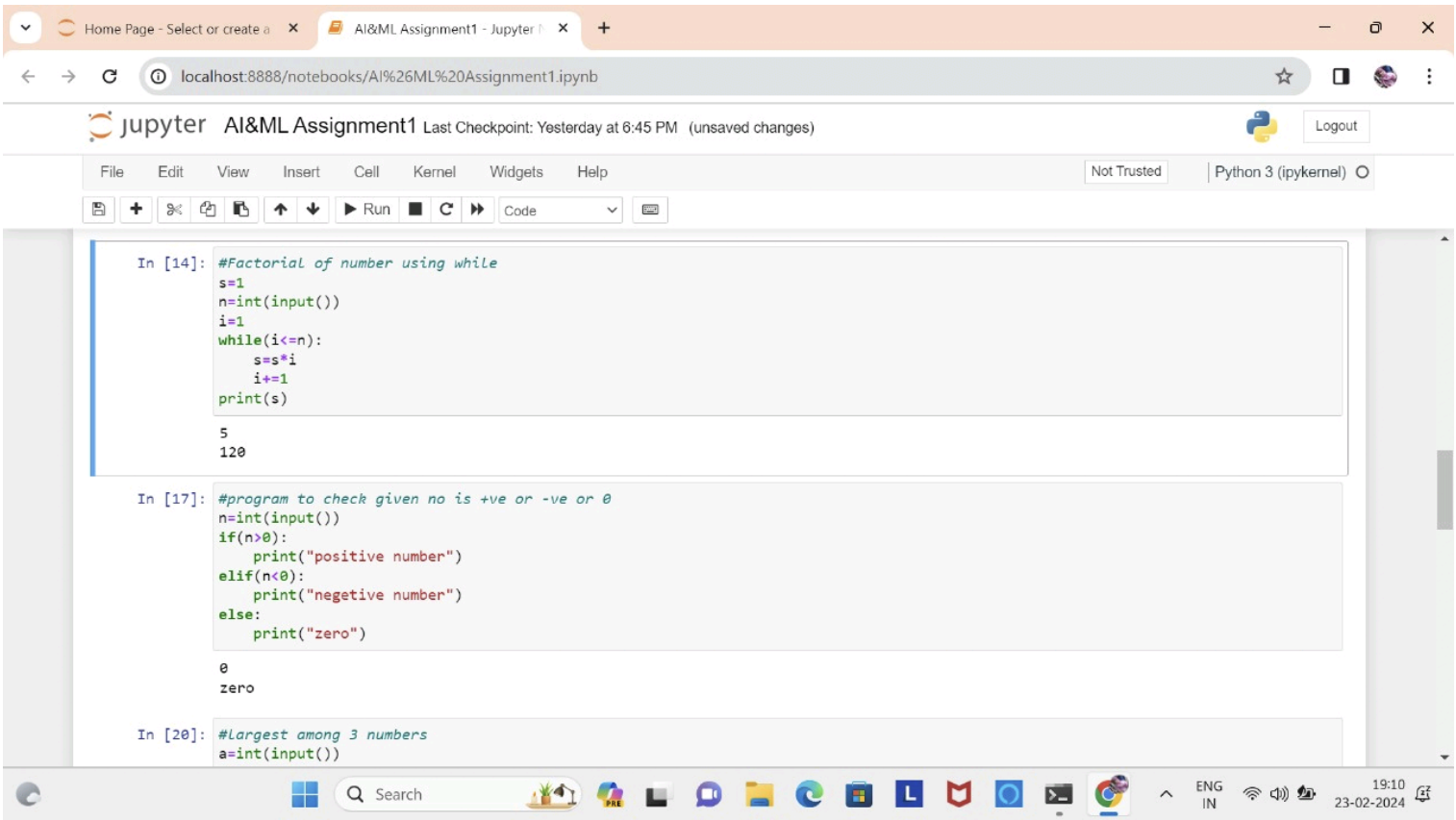
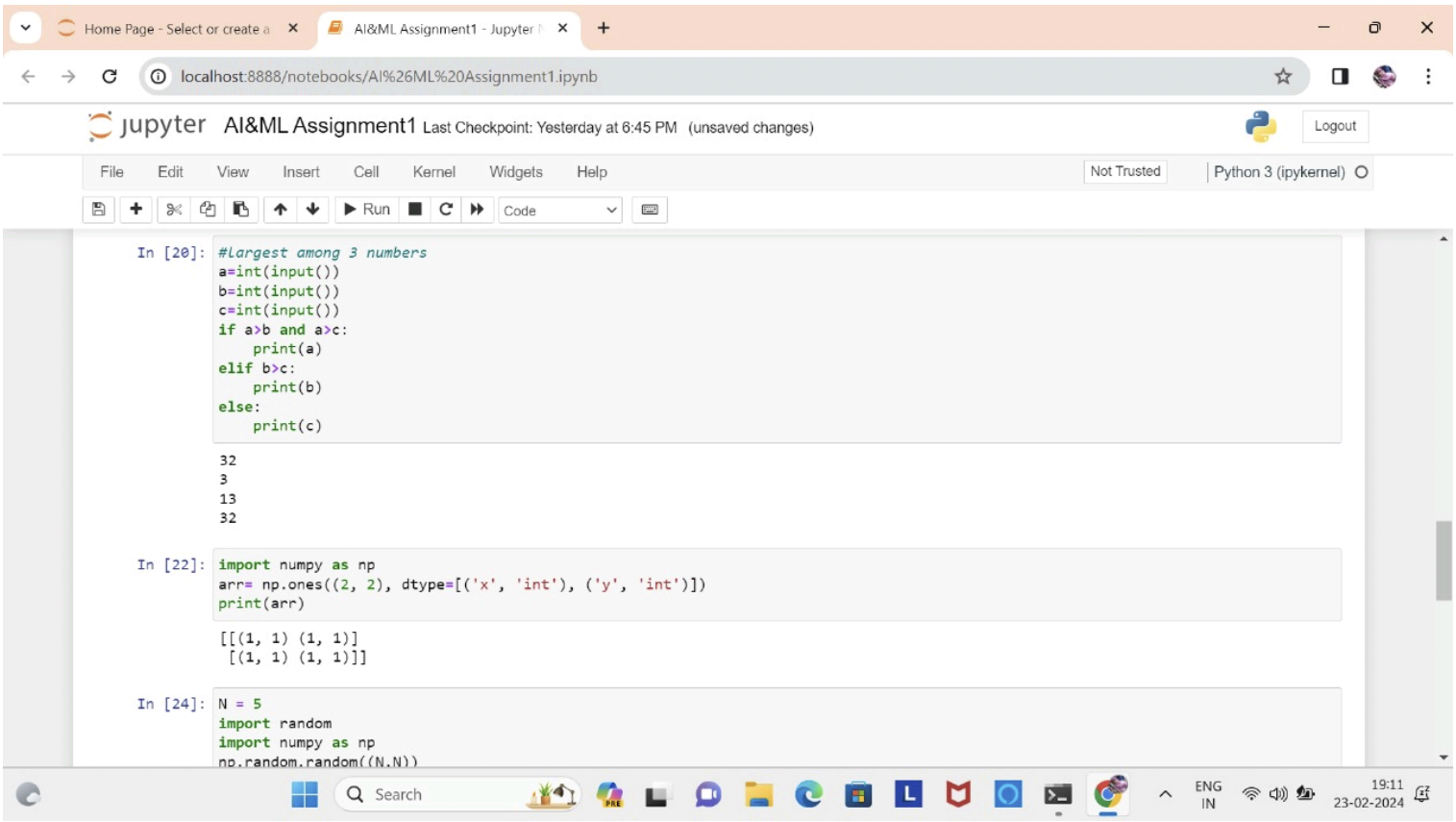

Home Page - Select or create a
AI&ML Assignment1 - Jupyter
localhost:8888/notebooks/AI%26ML%20Assignment1.ipynb
jupyter AI&ML Assignment1 Last Checkpoint: Yesterday at 6:45 PM (autosaved)
Logout
File Edit View Insert Cell Kernel Widgets Help
Not Trusted
Python 3 (ipykernel)
Run
Code
In [1]:
#AREA OF RECTANGLE
le=int(input())
wid=int(input())
are=le*wid
print(are)
5
6
30
In [4]:
#Convert miles to Kilometers
mil=int(input())
kil=mil*1.609344
print(kil,"km")
5
8.04672 km
In [5]:
#Palindrom
s=input()
a=list(s)
def pal(start,end,a):
while start<end:
t=a[start]
a[start]=a[end]
Search
ENG
IN
19:08
23-02-2024


Home Page - Select or create a
AI&ML Assignment1 - Jupyter
localhost:8888/notebooks/AI%26ML%20Assignment1.ipynb
jupyter AI&ML Assignment1 Last Checkpoint: Yesterday at 6:45 PM (autosaved)
Logout
File Edit View Insert Cell Kernel Widgets Help
Not Trusted
Python 3 (ipykernel)
Run
Code
In [5]:
#Palindrom
s=input()
a=list(s)
def pal(start,end,a):
while start<end:
t=a[start]
a[start]=a[end]
a[end]=t
start+=1
end-=1
return a
a=pal(0,len(a)-1,a)
s1=""
s1=s1.join(a)
print(s==s1)
malayalam
True
In [3]:
#second largest elememnt in list
l = [10, 20, 4, 45, 99]
nl= set(l)
nl.remove(max(nl))
print(max(nl))
45
Chat
Search
ENG
IN
19:09
23-02-2024


Home Page - Select or create a
AI&ML Assignment1 - Jupyter
localhost:8888/notebooks/AI%26ML%20Assignment1.ipynb
jupyter AI&ML Assignment1 Last Checkpoint: Yesterday at 6:45 PM (unsaved changes)
Logout
File Edit View Insert Cell Kernel Widgets Help
Not Trusted
Python 3 (ipykernel)
Run
Code
In [ ]:
#Indentatiom
Indentation refers to the spaces at the beginning of a code line.
The indentation in Python is very important.
Python uses indentation to indicate a block of code.
In [4]:
#Set difference operation
s1= {0, 2, 4, 6, 8};
s2= {1, 2, 3, 4, 5};
print("Difference of s1 and s2 is",s1 - s2)
Difference of s1 and s2 is {0, 8, 6}
In [2]:
#program to print 1 to 10 using while
n=int(input())
i=1
while(i<=n):
print(i,end=" ")
i+=1
10
1 2 3 4 5 6 7 8 9 10
In [14]:
#Factorial of number using while
Search
ENG
IN
19:10
23-02-2024


Home Page - Select or create a
AI&ML Assignment1 - Jupyter
localhost:8888/notebooks/AI%26ML%20Assignment1.ipynb
jupyter AI&ML Assignment1 Last Checkpoint: Yesterday at 6:45 PM (unsaved changes)
Logout
File Edit View Insert Cell Kernel Widgets Help
Not Trusted
Python 3 (ipykernel)
Run
Code
In [14]:
#Factorial of number using while
s=1
n=int(input())
i=1
while(i<=n):
s=s*i
i+=1
print(s)
5
120
In [17]:
#program to check given no is +ve or -ve or 0
n=int(input())
if(n>0):
print("positive number")
elif(n<0):
print("negetive number")
else:
print("zero")
0
zero
In [20]:
#Largest among 3 numbers
a=int(input())
Search
ENG
IN
19:10
23-02-2024


Home Page - Select or create a
AI&ML Assignment1 - Jupyter
localhost:8888/notebooks/AI%26ML%20Assignment1.ipynb
jupyter AI&ML Assignment1 Last Checkpoint: Yesterday at 6:45 PM (unsaved changes)
Logout
File Edit View Insert Cell Kernel Widgets Help
Not Trusted
Python 3 (ipykernel)
Run
Code
In [20]:
#Largest among 3 numbers
a=int(input())
b=int(input())
c=int(input())
if a>b and a>c:
print(a)
elif b>c:
print(b)
else:
print(c)
32
3
13
32
In [22]:
import numpy as np
arr= np.ones((2, 2), dtype=[('x', 'int'), ('y', 'int')])
print(arr)
[[(1, 1) (1, 1)]
[(1, 1) (1, 1)]]
In [24]:
N = 5
import random
import numpy as np
np.random.random((N,N))
Search
ENG
IN
19:11
23-02-2024

Home Page - Select or create a | AI&ML Assignment1 - Jupyter

localhost:8888/notebooks/AI%26ML%20Assignment1.ipynb

jupyter **AI&ML Assignment1** Last Checkpoint: Yesterday at 6:45 PM (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help

Not Trusted | Python 3 (ipykernel)

Run | Code

In [24]:
```
N = 5
import random
import numpy as np
np.random.random((N,N))
```

Out[24]:
```
array([[0.74345594, 0.13942972, 0.10262277, 0.27432117, 0.39295141],
       [0.74447054, 0.60310325, 0.44957586, 0.19673142, 0.6089019 ],
       [0.29831918, 0.40313126, 0.5506866 , 0.25602309, 0.83069723],
       [0.75459614, 0.62154374, 0.31910932, 0.65928884, 0.77169437],
       [0.18705726, 0.91201439, 0.87325214, 0.34243571, 0.53517314]])
```

In [5]:
```
import numpy as np
seq = np.linspace(0,1,5)
print(seq)
```

```
[0.   0.25 0.5  0.75 1.  ]
```

In [6]:
```
import numpy as np
np.linspace(1, 10)
```

Out[6]:
```
array([ 1.        ,  1.18367347,  1.36734694,  1.55102041,  1.73469388,
        1.91836735,  2.10204082,  2.28571429,  2.46938776,  2.65306122,
        2.83673469,  3.02040816,  3.20408163,  3.3877551 ,  3.57142857,
        3.75510204,  3.93877551,  4.12244898,  4.30612245,  4.48979592,
        4.67346939,  4.85714286,  5.04081633,  5.2244898 ,  5.40816327,
        5.59183673,  5.7755102 ,  5.95918367,  6.14285714,  6.32653061,
        6.51020408,  6.69387755,  6.87755102,  7.06122449,  7.24489796,
```

Search

ENG IN

19:11 23-02-2024

Home Page - Select or create a | AI&ML Assignment1 - Jupyter

localhost:8888/notebooks/AI%26ML%20Assignment1.ipynb

jupyter **AI&ML Assignment1** Last Checkpoint: Yesterday at 6:45 PM (unsaved changes) Logout

File Edit View Insert Cell Kernel Widgets Help Not Trusted Python 3 (ipykernel)

Run Code

In [6]:
```
import numpy as np
np.linspace(1, 10)
```

Out[6]:
```
array([ 1.        ,  1.18367347,  1.36734694,  1.55102041,  1.73469388,
        1.91836735,  2.10204082,  2.28571429,  2.46938776,  2.65306122,
        2.83673469,  3.02040816,  3.20408163,  3.3877551 ,  3.57142857,
        3.75510204,  3.93877551,  4.12244898,  4.30612245,  4.48979592,
        4.67346939,  4.85714286,  5.04081633,  5.2244898 ,  5.40816327,
        5.59183673,  5.7755102 ,  5.95918367,  6.14285714,  6.32653061,
        6.51020408,  6.69387755,  6.87755102,  7.06122449,  7.24489796,
        7.42857143,  7.6122449 ,  7.79591837,  7.97959184,  8.16326531,
        8.34693878,  8.53061224,  8.71428571,  8.89795918,  9.08163265,
        9.26530612,  9.44897959,  9.63265306,  9.81632653, 10.        ])
```

In [10]:
```
import numpy as np
arr = np.arange(2, 21, 2)
print("Array of all the even integers from 2 to 20")
print(arr)
```

```
Array of all the even integers from 2 to 20
[ 2  4  6  8 10 12 14 16 18 20]
```

In [13]:
```
 import numpy as np
np.arange(start=1, stop=10, step=2)
```

Out[13]:
```
array([1, 3, 5, 7, 9])
```

Search ENG IN 19:11 23-02-2024