SURIYA

225229140

open csv file

In [19]:
```
import pandas as pd
```

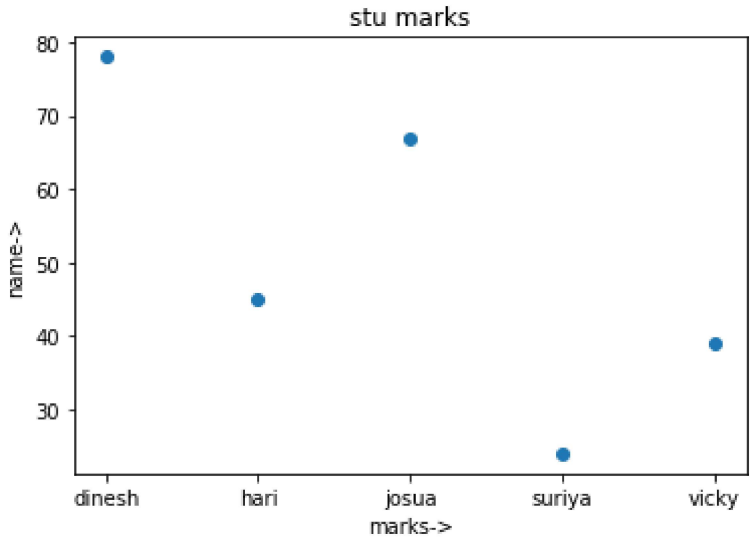
In [24]:
```
a=pd.read_csv(r'C:\Users\1mscdsa40\Downloads\mydata1.csv')
print(a)
```

```
     name  marks
0  suriya     24
1   josua     67
2    hari     45
3  dinesh     78
4   vicky     39
```

In [25]:
```
print("size:",a.size)
print("shape:",a.shape)
print("dim:",a.ndim)
```

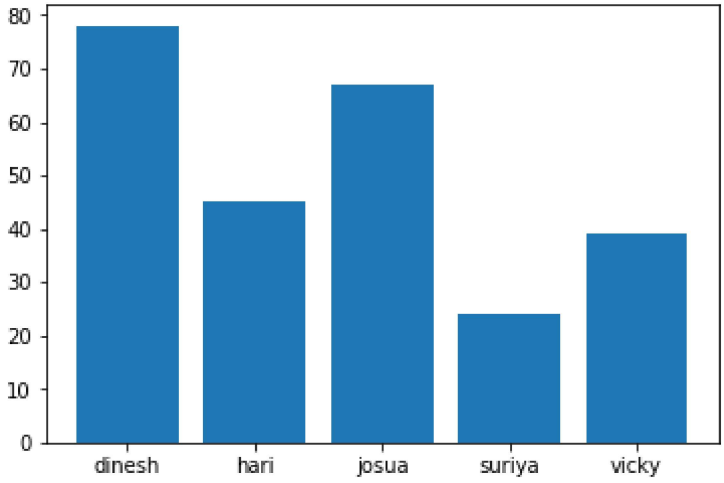
```
size: 10
shape: (5, 2)
dim: 2
```

In [31]:
```
import pandas as pd
import matplotlib.pyplot as plt

df = pd.read_csv(r'C:\Users\1mscdsa40\Downloads\mydata1.csv')

leng=df["marks"]
gen=df["name"]

x=[]
y=[]

x=list(gen)
y=list(leng)

plt.scatter(x,y)
plt.xlabel('marks->')
plt.ylabel('name->')
plt.title('stu marks')
plt.show()
```



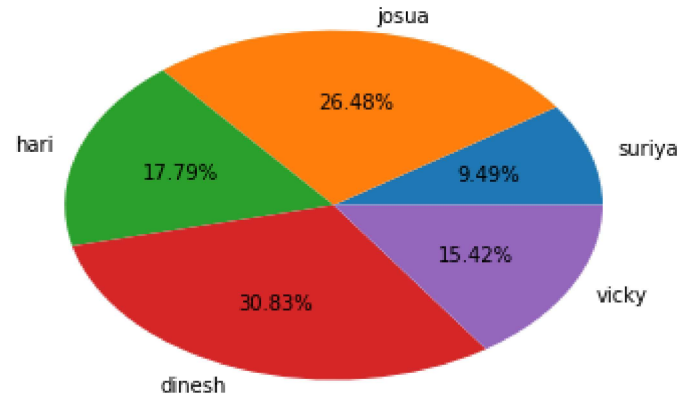
In [29]:
```
plt.bar(x,y)
```

Out[29]:
```
<Container object of 5 artists>
```

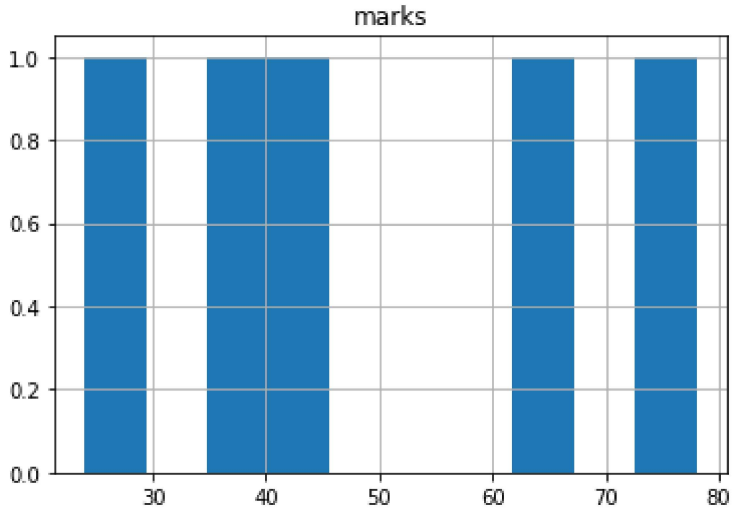


In [30]:
```
plt.pie(y,labels=x,autopct='%.2f%%')
```

Out[30]:
```
([<matplotlib.patches.Wedge at 0x2150b11afd0>,
  <matplotlib.patches.Wedge at 0x2150b124748>,
  <matplotlib.patches.Wedge at 0x2150b124ef0>,
  <matplotlib.patches.Wedge at 0x2150b12b6d8>,
  <matplotlib.patches.Wedge at 0x2150b12be80>],
 [Text(1.05151,0.322987,'suriya'),
  Text(0.156546,1.0888,'josua'),
  Text(-1.04317,0.348999,'hari'),
  Text(-0.393992,-1.02702,'dinesh'),
  Text(0.973513,-0.512126,'vicky')],
 [Text(0.573552,0.176175,'9.49%'),
  Text(0.0853889,0.593893,'26.48%'),
  Text(-0.569001,0.190363,'17.79%'),
  Text(-0.214905,-0.560193,'30.83%'),
  Text(0.531007,-0.279341,'15.42%')])
```



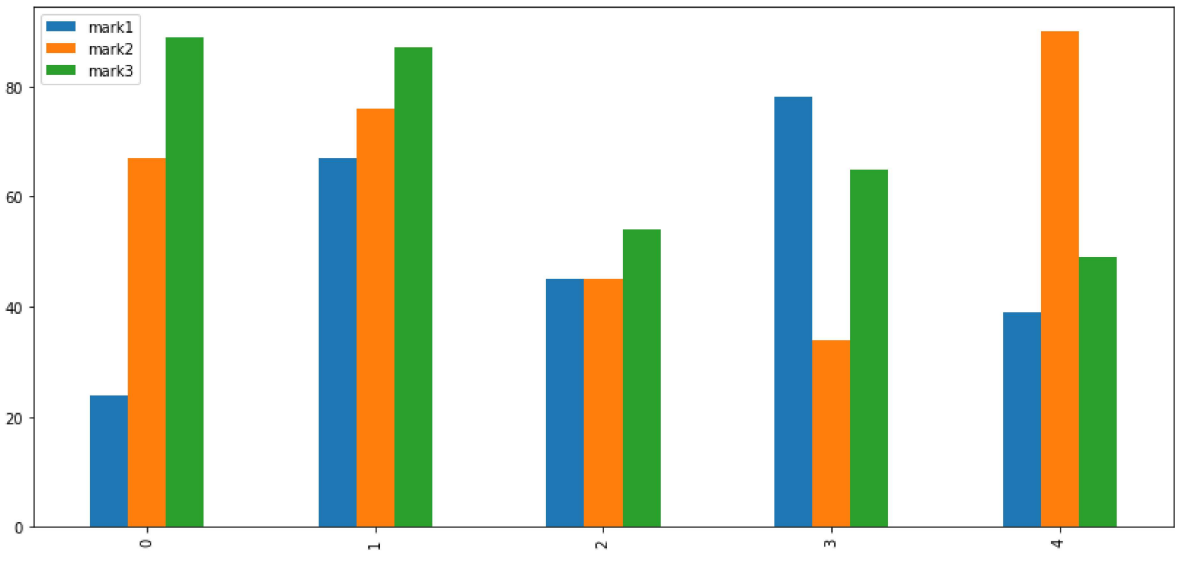
In [33]:
```
a.hist()
plt.show()
```



In [64]:
```
a.plot(kind="bar")
```

Out[64]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x21510ade5f8>
```

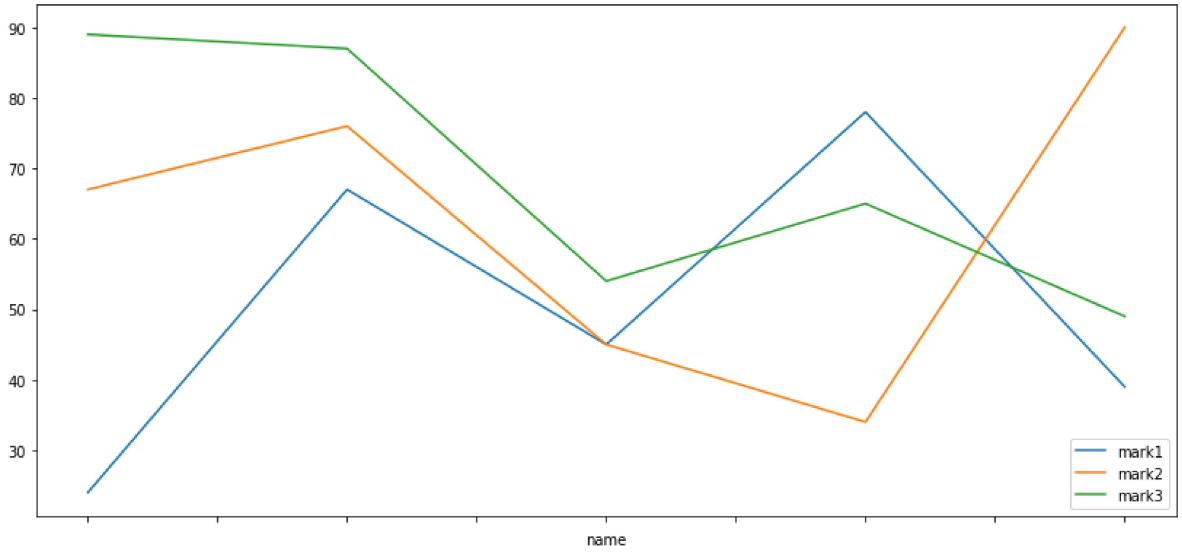
```
C:\Program Files (x86)\Microsoft Visual Studio\Shared\Anaconda3_64\lib\site-packag
es\matplotlib\figure.py:2022: UserWarning: This figure includes Axes that are not
compatible with tight_layout, so results might be incorrect.
  warnings.warn("This figure includes Axes that are not compatible "
```



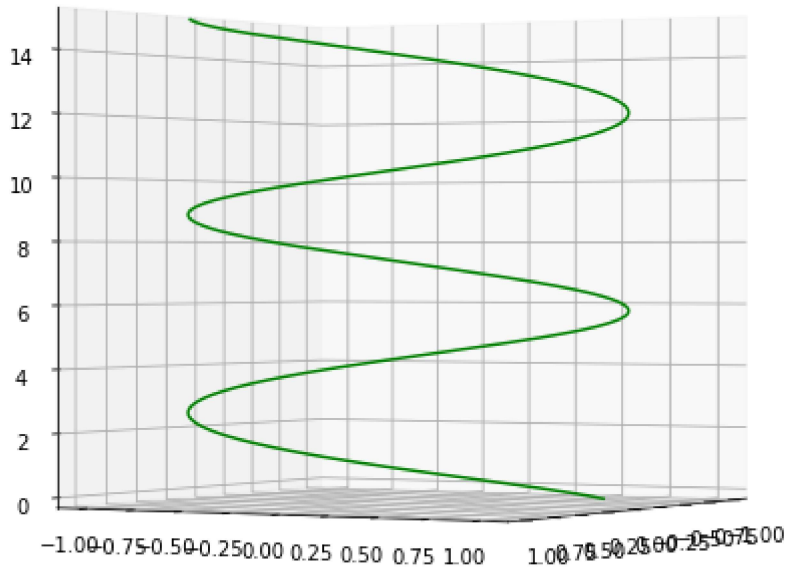
In [63]:
```
a.set_index('name').plot()
```

Out[63]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x21510ab85c0>
```

```
C:\Program Files (x86)\Microsoft Visual Studio\Shared\Anaconda3_64\lib\site-packag
es\matplotlib\figure.py:2022: UserWarning: This figure includes Axes that are not
compatible with tight_layout, so results might be incorrect.
  warnings.warn("This figure includes Axes that are not compatible "
```



In [34]:
```
from numpy import linspace
import numpy as np
import matplotlib.pyplot as plt
from mpl_toolkits import mplot3d

f= plt.figure(figsize=(8, 8))
ax = plt.axes(projection='3d')

z = np.linspace(0, 15, 1000)
x = np.sin(z)
y = np.cos(z)
ax.plot3D(x, y, z, 'green')


for angle in range(0, 360):
    ax.view_init(angle, 30)
    plt.draw()
    plt.pause(.001)

plt.show()
```




```
<matplotlib.figure.Figure at 0x2150b22da20>
<matplotlib.figure.Figure at 0x2150b27fb00>
<matplotlib.figure.Figure at 0x2150b3aeb38>
<matplotlib.figure.Figure at 0x2150b245a90>
<matplotlib.figure.Figure at 0x2150b3b8c88>
<matplotlib.figure.Figure at 0x2150b28e0b8>
<matplotlib.figure.Figure at 0x2150b28ed30>
<matplotlib.figure.Figure at 0x2150b29e550>
<matplotlib.figure.Figure at 0x2150b29ed30>
<matplotlib.figure.Figure at 0x2150b2a7550>
<matplotlib.figure.Figure at 0x2150b2a7d30>
<matplotlib.figure.Figure at 0x2150b2b0550>
<matplotlib.figure.Figure at 0x2150b2b0d30>
<matplotlib.figure.Figure at 0x2150b2ba5c0>
<matplotlib.figure.Figure at 0x2150b2bae48>
<matplotlib.figure.Figure at 0x2150b342710>
<matplotlib.figure.Figure at 0x2150b342f98>
<matplotlib.figure.Figure at 0x2150b350860>
<matplotlib.figure.Figure at 0x2150b354128>
<matplotlib.figure.Figure at 0x2150b3549b0>
<matplotlib.figure.Figure at 0x2150b35f278>
<matplotlib.figure.Figure at 0x2150b35fb00>
<matplotlib.figure.Figure at 0x2150b3683c8>
<matplotlib.figure.Figure at 0x2150b368c50>
<matplotlib.figure.Figure at 0x2150b375518>
<matplotlib.figure.Figure at 0x2150b375da0>
<matplotlib.figure.Figure at 0x2150b379668>
<matplotlib.figure.Figure at 0x2150b379ef0>
<matplotlib.figure.Figure at 0x2150b5427b8>
<matplotlib.figure.Figure at 0x2150b54f080>
<matplotlib.figure.Figure at 0x2150b54f908>
<matplotlib.figure.Figure at 0x2150b5591d0>
<matplotlib.figure.Figure at 0x2150b559a58>
<matplotlib.figure.Figure at 0x2150b55f320>
<matplotlib.figure.Figure at 0x2150b55fba8>
<matplotlib.figure.Figure at 0x2150b56c470>
```

```
<matplotlib.figure.Figure at 0x2150b56ccf8>
<matplotlib.figure.Figure at 0x2150b5735c0>
<matplotlib.figure.Figure at 0x2150b573e48>
<matplotlib.figure.Figure at 0x2150b57b710>
<matplotlib.figure.Figure at 0x2150b57bf98>
<matplotlib.figure.Figure at 0x2150b2c7860>
<matplotlib.figure.Figure at 0x2150b2cf128>
<matplotlib.figure.Figure at 0x2150b2cf9b0>
<matplotlib.figure.Figure at 0x2150b2d7278>
<matplotlib.figure.Figure at 0x2150b2d7b00>
<matplotlib.figure.Figure at 0x2150b2e23c8>
<matplotlib.figure.Figure at 0x2150b2e2c50>
<matplotlib.figure.Figure at 0x2150b2e9518>
<matplotlib.figure.Figure at 0x2150b2e9da0>
<matplotlib.figure.Figure at 0x2150b2f4668>
<matplotlib.figure.Figure at 0x2150b2f4ef0>
<matplotlib.figure.Figure at 0x2150b2fc828>
<matplotlib.figure.Figure at 0x2150b307080>
<matplotlib.figure.Figure at 0x2150b307908>
<matplotlib.figure.Figure at 0x2150b30f1d0>
<matplotlib.figure.Figure at 0x2150b30fa58>
<matplotlib.figure.Figure at 0x2150b317320>
<matplotlib.figure.Figure at 0x2150b317ba8>
<matplotlib.figure.Figure at 0x2150b323470>
<matplotlib.figure.Figure at 0x2150b323cf8>
<matplotlib.figure.Figure at 0x2150b3295c0>
<matplotlib.figure.Figure at 0x2150b329e48>
<matplotlib.figure.Figure at 0x2150b331710>
<matplotlib.figure.Figure at 0x2150b331f98>
<matplotlib.figure.Figure at 0x2150b33c860>
<matplotlib.figure.Figure at 0x2150b3c6128>
<matplotlib.figure.Figure at 0x2150b3c69b0>
<matplotlib.figure.Figure at 0x2150b3cd278>
<matplotlib.figure.Figure at 0x2150b3cdb00>
<matplotlib.figure.Figure at 0x2150b3d93c8>
<matplotlib.figure.Figure at 0x2150b3d9c50>
<matplotlib.figure.Figure at 0x2150b3e0518>
<matplotlib.figure.Figure at 0x2150b3e0da0>
<matplotlib.figure.Figure at 0x2150b3ea668>
<matplotlib.figure.Figure at 0x2150b3eaef0>
<matplotlib.figure.Figure at 0x2150b3f37b8>
<matplotlib.figure.Figure at 0x2150b3fe080>
<matplotlib.figure.Figure at 0x2150b3fe908>
<matplotlib.figure.Figure at 0x2150b408550>
<matplotlib.figure.Figure at 0x2150b408ac8>
<matplotlib.figure.Figure at 0x2150b411320>
<matplotlib.figure.Figure at 0x2150b411ba8>
<matplotlib.figure.Figure at 0x2150b41c470>
<matplotlib.figure.Figure at 0x2150b41ccf8>
<matplotlib.figure.Figure at 0x2150b4225c0>
<matplotlib.figure.Figure at 0x2150b422e48>
<matplotlib.figure.Figure at 0x2150b42a710>
<matplotlib.figure.Figure at 0x2150b42af98>
<matplotlib.figure.Figure at 0x2150b436860>
<matplotlib.figure.Figure at 0x2150b43e128>
<matplotlib.figure.Figure at 0x2150b43e9b0>
<matplotlib.figure.Figure at 0x2150b447278>
<matplotlib.figure.Figure at 0x2150b447b00>
<matplotlib.figure.Figure at 0x2150b4503c8>
<matplotlib.figure.Figure at 0x2150b450c50>
<matplotlib.figure.Figure at 0x2150b45a518>
<matplotlib.figure.Figure at 0x2150b45ada0>
<matplotlib.figure.Figure at 0x2150b463668>
<matplotlib.figure.Figure at 0x2150b463ef0>
<matplotlib.figure.Figure at 0x2150b46d7b8>
```

```
<matplotlib.figure.Figure at 0x2150b475080>
<matplotlib.figure.Figure at 0x2150b475908>
<matplotlib.figure.Figure at 0x2150b47d1d0>
<matplotlib.figure.Figure at 0x2150b47da58>
<matplotlib.figure.Figure at 0x2150b486320>
<matplotlib.figure.Figure at 0x2150b486ba8>
<matplotlib.figure.Figure at 0x2150b490470>
<matplotlib.figure.Figure at 0x2150b490cf8>
<matplotlib.figure.Figure at 0x2150b4985c0>
<matplotlib.figure.Figure at 0x2150b498e48>
<matplotlib.figure.Figure at 0x2150b4a2710>
<matplotlib.figure.Figure at 0x2150b4a2f98>
<matplotlib.figure.Figure at 0x2150b4ac860>
<matplotlib.figure.Figure at 0x2150b4b5128>
<matplotlib.figure.Figure at 0x2150b4b59b0>
<matplotlib.figure.Figure at 0x2150b4be278>
<matplotlib.figure.Figure at 0x2150b4beb00>
<matplotlib.figure.Figure at 0x2150b4c63c8>
<matplotlib.figure.Figure at 0x2150b4c6c50>
<matplotlib.figure.Figure at 0x2150b4d1518>
<matplotlib.figure.Figure at 0x2150b4d1da0>
<matplotlib.figure.Figure at 0x2150b4d8668>
<matplotlib.figure.Figure at 0x2150b4d8ef0>
<matplotlib.figure.Figure at 0x2150b4e37b8>
<matplotlib.figure.Figure at 0x2150b4eb080>
<matplotlib.figure.Figure at 0x2150b4eb908>
<matplotlib.figure.Figure at 0x2150b4f71d0>
<matplotlib.figure.Figure at 0x2150b4f7a58>
<matplotlib.figure.Figure at 0x2150b4fe320>
<matplotlib.figure.Figure at 0x2150b4feba8>
<matplotlib.figure.Figure at 0x2150b50a470>
<matplotlib.figure.Figure at 0x2150b50acf8>
<matplotlib.figure.Figure at 0x2150b5105c0>
<matplotlib.figure.Figure at 0x2150b510e48>
<matplotlib.figure.Figure at 0x2150b519710>
<matplotlib.figure.Figure at 0x2150b519f98>
<matplotlib.figure.Figure at 0x2150b525860>
<matplotlib.figure.Figure at 0x2150b52c128>
<matplotlib.figure.Figure at 0x2150b52c9b0>
<matplotlib.figure.Figure at 0x2150b536278>
<matplotlib.figure.Figure at 0x2150b536b00>
<matplotlib.figure.Figure at 0x2150b53f3c8>
<matplotlib.figure.Figure at 0x2150b53fc50>
<matplotlib.figure.Figure at 0x2150b587518>
<matplotlib.figure.Figure at 0x2150b587da0>
<matplotlib.figure.Figure at 0x2150b590668>
<matplotlib.figure.Figure at 0x2150b590ef0>
<matplotlib.figure.Figure at 0x2150b59a7b8>
<matplotlib.figure.Figure at 0x2150b5a3080>
<matplotlib.figure.Figure at 0x2150b5a3908>
<matplotlib.figure.Figure at 0x2150b5ac1d0>
<matplotlib.figure.Figure at 0x2150b5aca58>
<matplotlib.figure.Figure at 0x2150b5b4320>
<matplotlib.figure.Figure at 0x2150b5b4ba8>
<matplotlib.figure.Figure at 0x2150b5bf470>
<matplotlib.figure.Figure at 0x2150b5bfcf8>
<matplotlib.figure.Figure at 0x2150b5c85c0>
<matplotlib.figure.Figure at 0x2150b5c8e48>
<matplotlib.figure.Figure at 0x2150b5d2710>
<matplotlib.figure.Figure at 0x2150b5d2f98>
<matplotlib.figure.Figure at 0x2150b5dc860>
<matplotlib.figure.Figure at 0x2150b5e4128>
<matplotlib.figure.Figure at 0x2150b5e49b0>
<matplotlib.figure.Figure at 0x2150b5ed278>
<matplotlib.figure.Figure at 0x2150b5edb00>
```

```
<matplotlib.figure.Figure at 0x2150b5f83c8>
<matplotlib.figure.Figure at 0x2150b5f8c50>
<matplotlib.figure.Figure at 0x2150b600518>
<matplotlib.figure.Figure at 0x2150b600da0>
<matplotlib.figure.Figure at 0x2150b608668>
<matplotlib.figure.Figure at 0x2150b608ef0>
<matplotlib.figure.Figure at 0x2150b6117b8>
<matplotlib.figure.Figure at 0x2150b61d080>
<matplotlib.figure.Figure at 0x2150b61d908>
<matplotlib.figure.Figure at 0x2150b6261d0>
<matplotlib.figure.Figure at 0x2150b626a58>
<matplotlib.figure.Figure at 0x2150b62e320>
<matplotlib.figure.Figure at 0x2150b62eba8>
<matplotlib.figure.Figure at 0x2150b638470>
<matplotlib.figure.Figure at 0x2150b638cf8>
<matplotlib.figure.Figure at 0x2150b63e5c0>
<matplotlib.figure.Figure at 0x2150b63ee48>
<matplotlib.figure.Figure at 0x21510aa7710>
<matplotlib.figure.Figure at 0x21510aa7f98>
<matplotlib.figure.Figure at 0x21510ab3860>
<matplotlib.figure.Figure at 0x21510abb128>
<matplotlib.figure.Figure at 0x21510abb9b0>
<matplotlib.figure.Figure at 0x21510ac4278>
<matplotlib.figure.Figure at 0x21510ac4b00>
<matplotlib.figure.Figure at 0x21510ace3c8>
<matplotlib.figure.Figure at 0x21510acec50>
<matplotlib.figure.Figure at 0x21510ad8518>
<matplotlib.figure.Figure at 0x21510ad8da0>
<matplotlib.figure.Figure at 0x21511ab0668>
<matplotlib.figure.Figure at 0x21511ab0ef0>
<matplotlib.figure.Figure at 0x21511ab97b8>
<matplotlib.figure.Figure at 0x21511ac3080>
<matplotlib.figure.Figure at 0x21511ac3908>
<matplotlib.figure.Figure at 0x21511acb1d0>
<matplotlib.figure.Figure at 0x21511acba58>
<matplotlib.figure.Figure at 0x21511ad4320>
<matplotlib.figure.Figure at 0x21511ad4ba8>
<matplotlib.figure.Figure at 0x21511ae1470>
<matplotlib.figure.Figure at 0x21511ae1cf8>
<matplotlib.figure.Figure at 0x21511ae85c0>
<matplotlib.figure.Figure at 0x21511ae8e48>
<matplotlib.figure.Figure at 0x21511aef710>
<matplotlib.figure.Figure at 0x21511aeff98>
<matplotlib.figure.Figure at 0x21511afb860>
<matplotlib.figure.Figure at 0x21511b03128>
<matplotlib.figure.Figure at 0x21511b039b0>
<matplotlib.figure.Figure at 0x21511b0b278>
<matplotlib.figure.Figure at 0x21511b0bb00>
<matplotlib.figure.Figure at 0x21511b163c8>
<matplotlib.figure.Figure at 0x21511b16c50>
<matplotlib.figure.Figure at 0x21511b1d518>
<matplotlib.figure.Figure at 0x21511b1dda0>
<matplotlib.figure.Figure at 0x21511b28668>
<matplotlib.figure.Figure at 0x21511b28ef0>
<matplotlib.figure.Figure at 0x21512b007b8>
<matplotlib.figure.Figure at 0x21512b0a080>
<matplotlib.figure.Figure at 0x21512b0a908>
<matplotlib.figure.Figure at 0x21512b121d0>
<matplotlib.figure.Figure at 0x21512b12a58>
<matplotlib.figure.Figure at 0x21512b1b320>
<matplotlib.figure.Figure at 0x21512b1bba8>
<matplotlib.figure.Figure at 0x21512b27470>
<matplotlib.figure.Figure at 0x21512b27cf8>
<matplotlib.figure.Figure at 0x21512b2d5c0>
<matplotlib.figure.Figure at 0x21512b2de48>
```

```
<matplotlib.figure.Figure at 0x21512b36710>
<matplotlib.figure.Figure at 0x21512b36f98>
<matplotlib.figure.Figure at 0x21512b41860>
<matplotlib.figure.Figure at 0x21512b4a128>
<matplotlib.figure.Figure at 0x21512b4a9b0>
<matplotlib.figure.Figure at 0x21512b53278>
<matplotlib.figure.Figure at 0x21512b53b00>
<matplotlib.figure.Figure at 0x21512b5d3c8>
<matplotlib.figure.Figure at 0x21512b5dc50>
<matplotlib.figure.Figure at 0x21512b67518>
<matplotlib.figure.Figure at 0x21512b67da0>
<matplotlib.figure.Figure at 0x21512b6c668>
<matplotlib.figure.Figure at 0x21512b6cef0>
<matplotlib.figure.Figure at 0x21512b777b8>
<matplotlib.figure.Figure at 0x21512b82080>
<matplotlib.figure.Figure at 0x21512b82908>
<matplotlib.figure.Figure at 0x21512b8b1d0>
<matplotlib.figure.Figure at 0x21512b8ba58>
<matplotlib.figure.Figure at 0x21512b94320>
<matplotlib.figure.Figure at 0x21512b94ba8>
<matplotlib.figure.Figure at 0x21512b9e470>
<matplotlib.figure.Figure at 0x21512b9ecf8>
<matplotlib.figure.Figure at 0x21512ba65c0>
<matplotlib.figure.Figure at 0x21512ba6e48>
<matplotlib.figure.Figure at 0x21512baf710>
<matplotlib.figure.Figure at 0x21512baff98>
<matplotlib.figure.Figure at 0x21512bba860>
<matplotlib.figure.Figure at 0x21513b92128>
<matplotlib.figure.Figure at 0x21513b929b0>
<matplotlib.figure.Figure at 0x21513b9a278>
<matplotlib.figure.Figure at 0x21513b9ab00>
<matplotlib.figure.Figure at 0x21513ba23c8>
<matplotlib.figure.Figure at 0x21513ba2c50>
<matplotlib.figure.Figure at 0x21513bae518>
<matplotlib.figure.Figure at 0x21513baeda0>
<matplotlib.figure.Figure at 0x21513bb6668>
<matplotlib.figure.Figure at 0x21513bb6ef0>
<matplotlib.figure.Figure at 0x21513bc07b8>
<matplotlib.figure.Figure at 0x21513bc8080>
<matplotlib.figure.Figure at 0x21513bc8908>
<matplotlib.figure.Figure at 0x21513bd21d0>
<matplotlib.figure.Figure at 0x21513bd2a58>
<matplotlib.figure.Figure at 0x21513bdb320>
<matplotlib.figure.Figure at 0x21513bdbba8>
<matplotlib.figure.Figure at 0x21513be6470>
<matplotlib.figure.Figure at 0x21513be6cf8>
<matplotlib.figure.Figure at 0x21513bec5c0>
<matplotlib.figure.Figure at 0x21513bece48>
<matplotlib.figure.Figure at 0x21513bf5710>
<matplotlib.figure.Figure at 0x21513bf5f98>
<matplotlib.figure.Figure at 0x21513c01860>
<matplotlib.figure.Figure at 0x21513c0a128>
<matplotlib.figure.Figure at 0x21513c0a9b0>
<matplotlib.figure.Figure at 0x21514be2278>
<matplotlib.figure.Figure at 0x21514be2b00>
<matplotlib.figure.Figure at 0x21514be93c8>
<matplotlib.figure.Figure at 0x21514be9c50>
<matplotlib.figure.Figure at 0x21514bf4518>
<matplotlib.figure.Figure at 0x21514bf4da0>
<matplotlib.figure.Figure at 0x21514bfc668>
<matplotlib.figure.Figure at 0x21514bfcef0>
<matplotlib.figure.Figure at 0x21514c087b8>
<matplotlib.figure.Figure at 0x21514c10080>
<matplotlib.figure.Figure at 0x21514c10908>
<matplotlib.figure.Figure at 0x21514c1a1d0>
```

```
<matplotlib.figure.Figure at 0x21514c1aa58>
<matplotlib.figure.Figure at 0x21514c22320>
<matplotlib.figure.Figure at 0x21514c22ba8>
<matplotlib.figure.Figure at 0x21514c2e470>
<matplotlib.figure.Figure at 0x21514c2ecf8>
<matplotlib.figure.Figure at 0x21514c355c0>
<matplotlib.figure.Figure at 0x21514c35e48>
<matplotlib.figure.Figure at 0x21514c3d710>
<matplotlib.figure.Figure at 0x21514c3df98>
<matplotlib.figure.Figure at 0x21514c47860>
<matplotlib.figure.Figure at 0x21514c4f128>
<matplotlib.figure.Figure at 0x21514c4f9b0>
<matplotlib.figure.Figure at 0x21514c59278>
<matplotlib.figure.Figure at 0x21514c59b00>
<matplotlib.figure.Figure at 0x21514c633c8>
<matplotlib.figure.Figure at 0x21514c63c50>
<matplotlib.figure.Figure at 0x21514c6c518>
<matplotlib.figure.Figure at 0x21514c6cda0>
<matplotlib.figure.Figure at 0x21514c74668>
<matplotlib.figure.Figure at 0x21514c74ef0>
<matplotlib.figure.Figure at 0x21514c7d7b8>
<matplotlib.figure.Figure at 0x21514c89080>
<matplotlib.figure.Figure at 0x21514c89908>
<matplotlib.figure.Figure at 0x21514c901d0>
<matplotlib.figure.Figure at 0x21514c90a58>
<matplotlib.figure.Figure at 0x21514c99320>
<matplotlib.figure.Figure at 0x21514c99ba8>
<matplotlib.figure.Figure at 0x21515c73470>
<matplotlib.figure.Figure at 0x21515c73cf8>
<matplotlib.figure.Figure at 0x21515c7a5c0>
<matplotlib.figure.Figure at 0x21515c7ae48>
<matplotlib.figure.Figure at 0x21515c85710>
<matplotlib.figure.Figure at 0x21515c85f98>
<matplotlib.figure.Figure at 0x21515c8f860>
<matplotlib.figure.Figure at 0x21515c99128>
<matplotlib.figure.Figure at 0x21515c999b0>
<matplotlib.figure.Figure at 0x21515ca1278>
<matplotlib.figure.Figure at 0x21515ca1b00>
<matplotlib.figure.Figure at 0x21515cad3c8>
<matplotlib.figure.Figure at 0x21515cadc50>
<matplotlib.figure.Figure at 0x21515cb4518>
<matplotlib.figure.Figure at 0x21515cb4da0>
<matplotlib.figure.Figure at 0x21515cbd668>
<matplotlib.figure.Figure at 0x21515cbdef0>
<matplotlib.figure.Figure at 0x21515cc67b8>
<matplotlib.figure.Figure at 0x21515cd0080>
<matplotlib.figure.Figure at 0x21515cd0908>
<matplotlib.figure.Figure at 0x21515cd91d0>
<matplotlib.figure.Figure at 0x21515cd9a58>
<matplotlib.figure.Figure at 0x21515ce2320>
<matplotlib.figure.Figure at 0x21515ce2ba8>
<matplotlib.figure.Figure at 0x21515ceb470>
<matplotlib.figure.Figure at 0x21515cebcf8>
<matplotlib.figure.Figure at 0x21516cc45c0>
<matplotlib.figure.Figure at 0x21516cc4e48>
<matplotlib.figure.Figure at 0x21516ccb710>
<matplotlib.figure.Figure at 0x21516ccbf98>
<matplotlib.figure.Figure at 0x21516cd7860>
<matplotlib.figure.Figure at 0x21516ce0128>
<matplotlib.figure.Figure at 0x21516ce09b0>
<matplotlib.figure.Figure at 0x21516ce9278>
<matplotlib.figure.Figure at 0x21516ce9b00>
<matplotlib.figure.Figure at 0x21516cf23c8>
```

open tsv file

In [40]:
```
import pandas as pd
data=pd.read_csv(r'C:\Users\1mscdsa40\Downloads\mydata1.csv')
```

In [41]:
```
data.head
```

Out[41]:
```
<bound method NDFrame.head of      name  marks
0  suriya     24
1   josua     67
2    hari     45
3  dinesh     78
4   vicky     39>
```

In [42]:
```
data.tail
```

Out[42]:
```
<bound method NDFrame.tail of      name  marks
0  suriya     24
1   josua     67
2    hari     45
3  dinesh     78
4   vicky     39>
```

In [43]:
```
data.ndim
```

Out[43]:
```
2
```

In [44]:
```
data.size
```

Out[44]:
```
10
```

In [45]:
```
data.shape
```

Out[45]:
```
(5, 2)
```

In [49]:
```
t=pd.read_csv(r'C:\Users\1mscdsa40\Downloads\mydata1.csv', sep='\t')
```

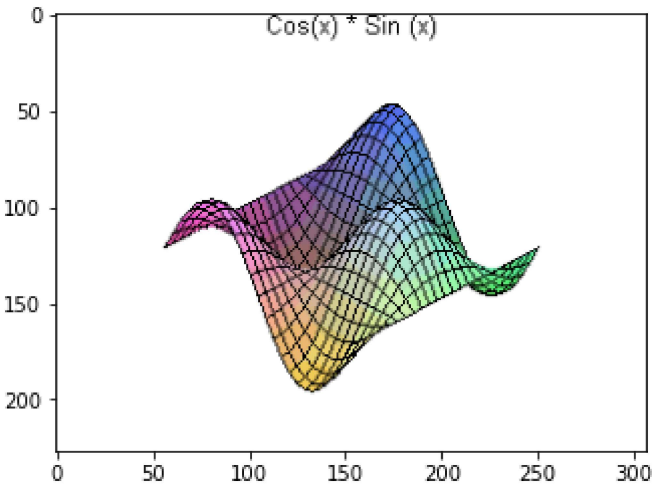
open image file

In [1]:
```
import matplotlib.image as mpimg
import matplotlib.pyplot as plt


img = mpimg.imread('city.jpg')


plt.imshow(img)
```

Out[1]:
```
<matplotlib.image.AxesImage at 0x1b348a51b50>
```

In [7]:
```
from PIL import Image

from PIL import GifImagePlugin

import matplotlib.pyplot as plt


imageObject = Image.open("FBxx.gif")

print(imageObject.is_animated)

print(imageObject.n_frames)


plt.imshow(imageObject)
```

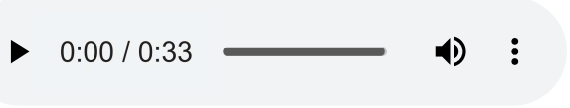
Out[7]:
```
True
6
<matplotlib.image.AxesImage at 0x1b34efa45b0>
```



open audio file

In [4]:
```
import IPython
IPython.display.Audio("audio.mp3")
```

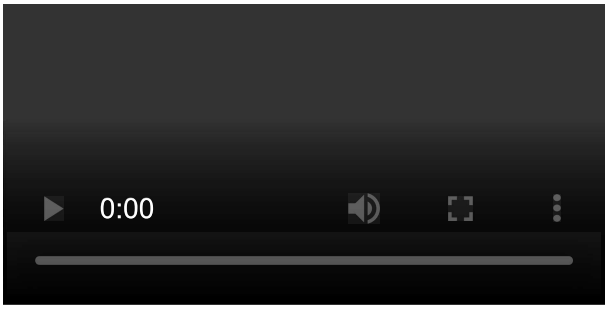
Out[4]:



In [ ]:
```
#open video file
```

In [6]:
```
from IPython.display import Video
Video("vidi.mp4")
```

Out[6]:



In [ ]:
```
#open doc file
```

In [11]:
```
import docx2txt

result=docx2txt.process("new.docx")
result
```

Out[11]:
```
"collecting docx2txtNote: you may need to restart the kernel to use updated packag
es.\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t  Downloading docx2txt-0.8.tar.gz (2.8 kB)
\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\tBuilding wheels for collected packages: docx2t
xt\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t  Building wheel for docx2txt (setup.py): st
arted\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t  Building wheel for docx2txt (setup.py):
finished with status 'done'\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t  Created wheel for
docx2txt: filename=docx2txt-0.8-py3-none-any.while"
```

In [ ]:
```
#open pdf file
```

In [12]:
```
from IPython.display import IFrame, display
fp='pro.pdf'
IFrame(fp,width=700,height=400)
```

Out[12]:

In [ ]:
```
#open text file
```

In [13]:
```
f=open('text.txt','r')
f.read()
```

Out[13]:
```
'MY NAME IS SURIYA AND I AM AN FUTURE DATA SCIENTIST AT AMAZON'
```

In [ ]:
```

```