MSD_mat1

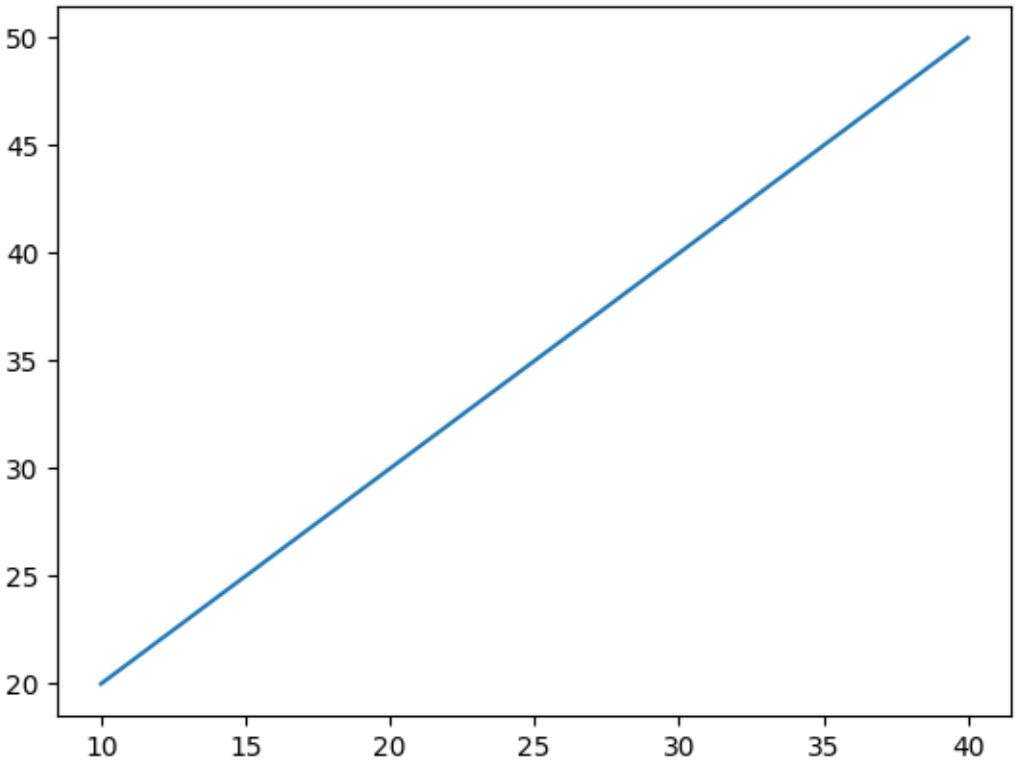
December 10, 2023

[ ]:
```
import matplotlib.pyplot as plt
```

[ ]:
```
#Initalise the data
X=[10,20,30,40]
Y=[20,30,40,50]
```

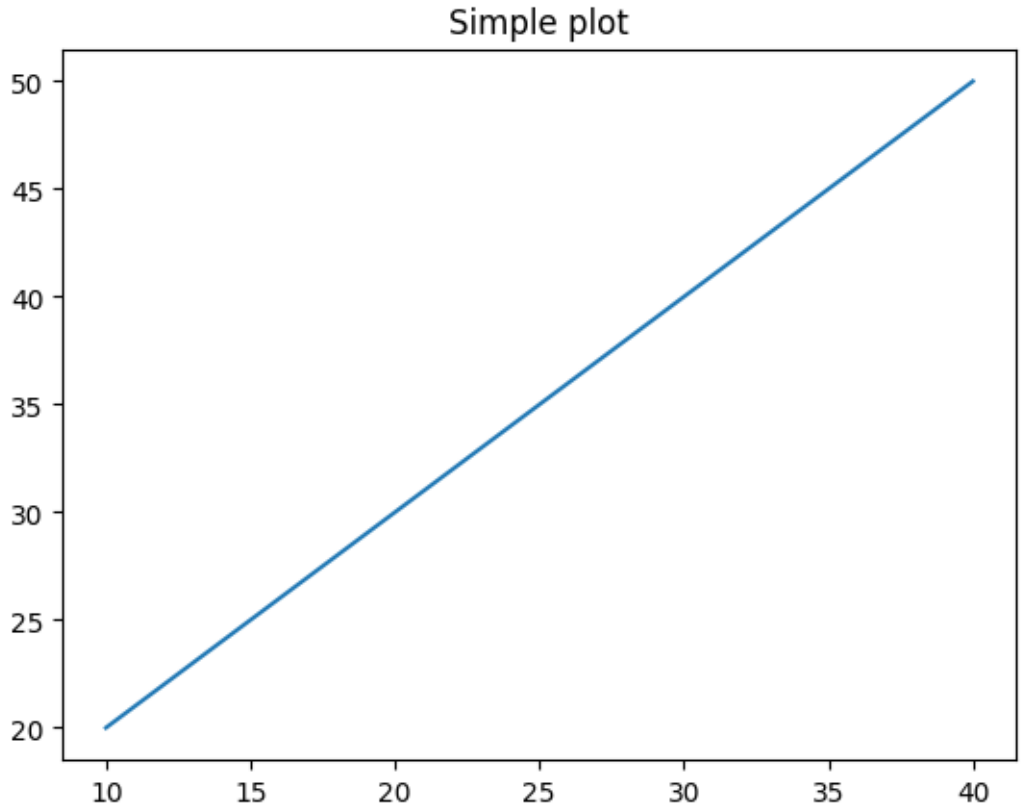
[ ]:
```
#plotting the data
plt.plot(X,Y)
#plt.show()
```

[ ]:
```
[<matplotlib.lines.Line2D at 0x79e3fadba080>]
```



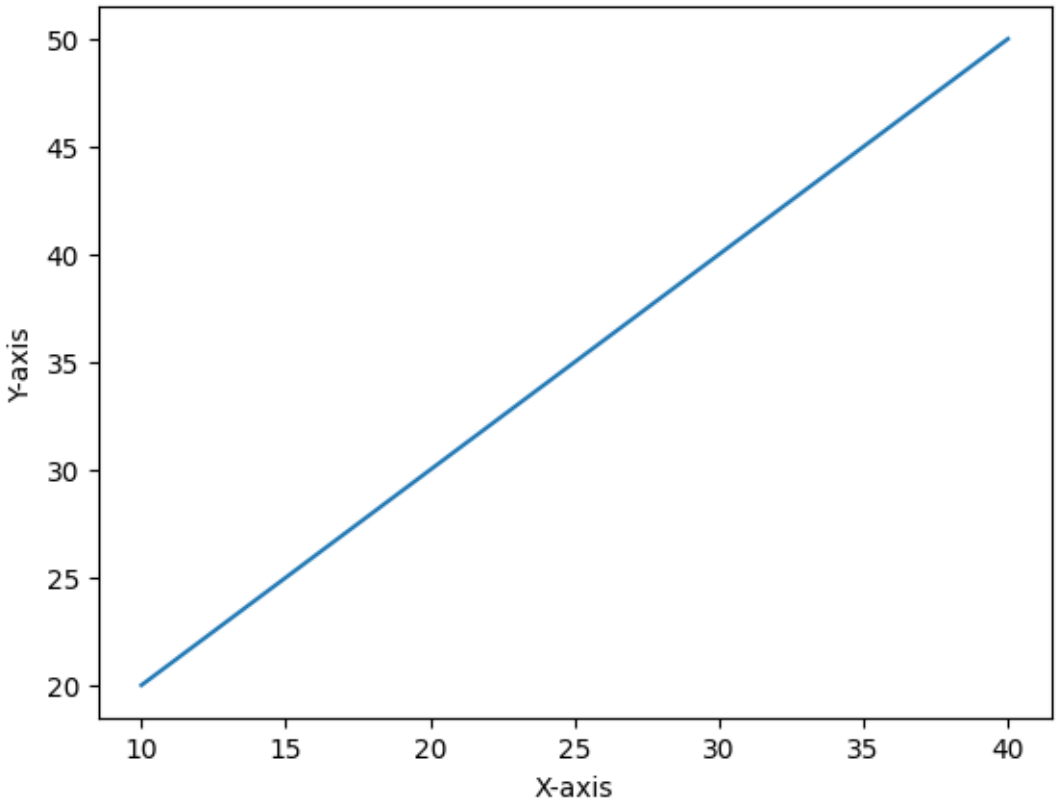
[ ]:
```
#addithin the title
plt.title("Simple plot")
plt.plot(X,Y)
```

[ ]:
```
[<matplotlib.lines.Line2D at 0x79e3f8017be0>]
```



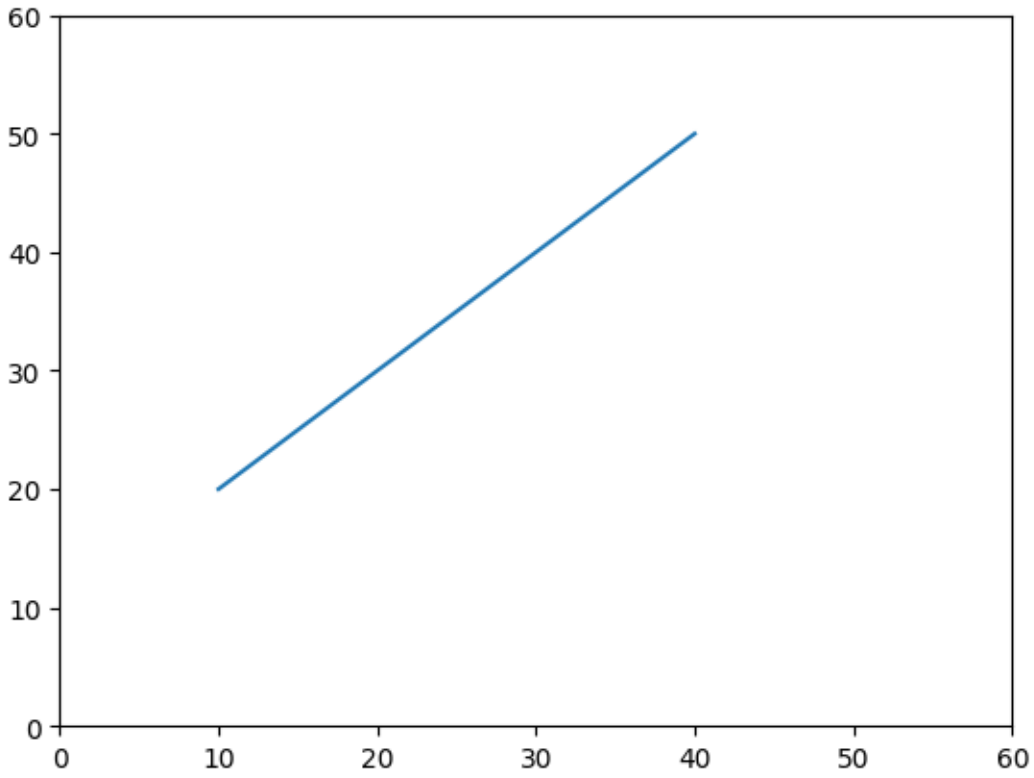
[ ]:
```
#adding the labels
plt.ylabel("Y-axis")
plt.xlabel("X-axis")
plt.plot(X,Y)
```

[ ]:
```
[<matplotlib.lines.Line2D at 0x79e3f80ae5f0>]
```



[ ]:
```
#add axis
plt.axis([0,60,0,60])
plt.plot(X,Y)
```

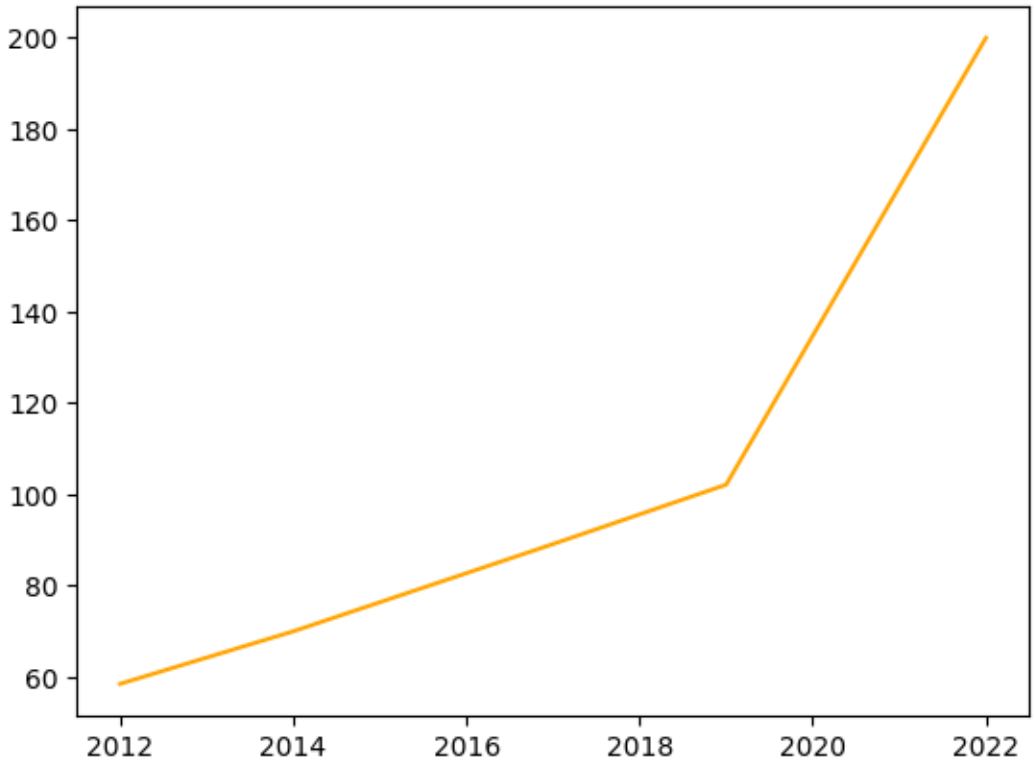
[ ]: [<matplotlib.lines.Line2D at 0x79e3dc748940>]



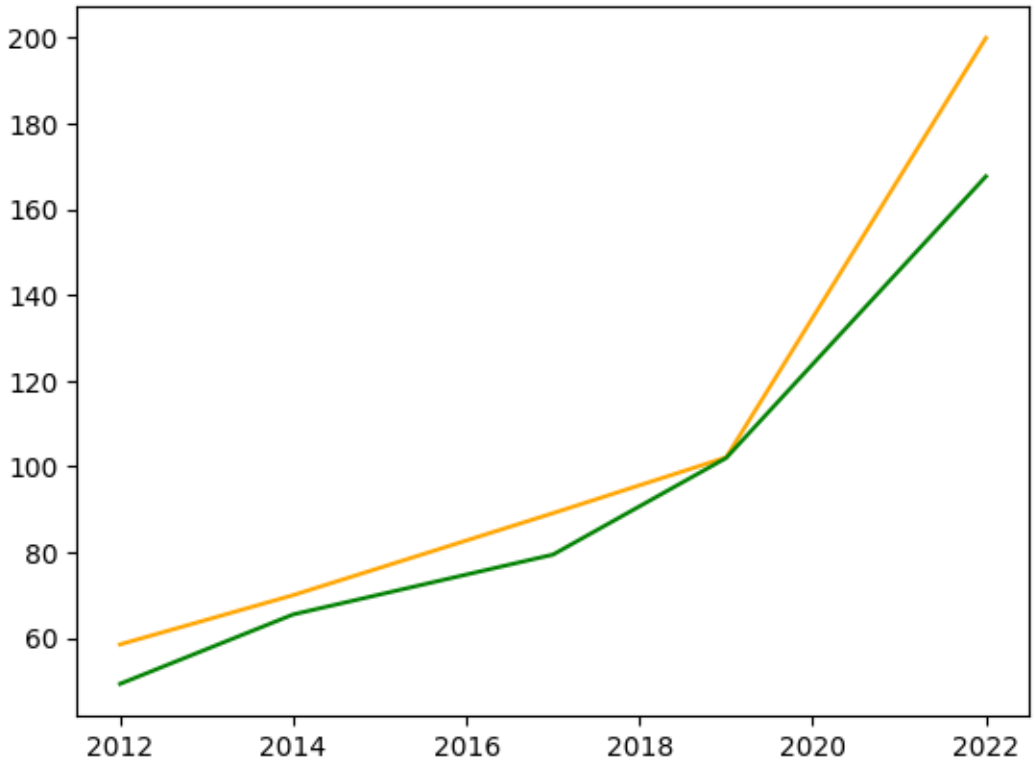
[ ]:
```
##### Line Plot #######
```

[ ]:
```
Year=[2012,2014,2017,2019,2022]
India=[58.5, 70, 89.12, 102.13, 200]
Bangladesh=[49.3,65.5, 79.45, 102,167.70]
```

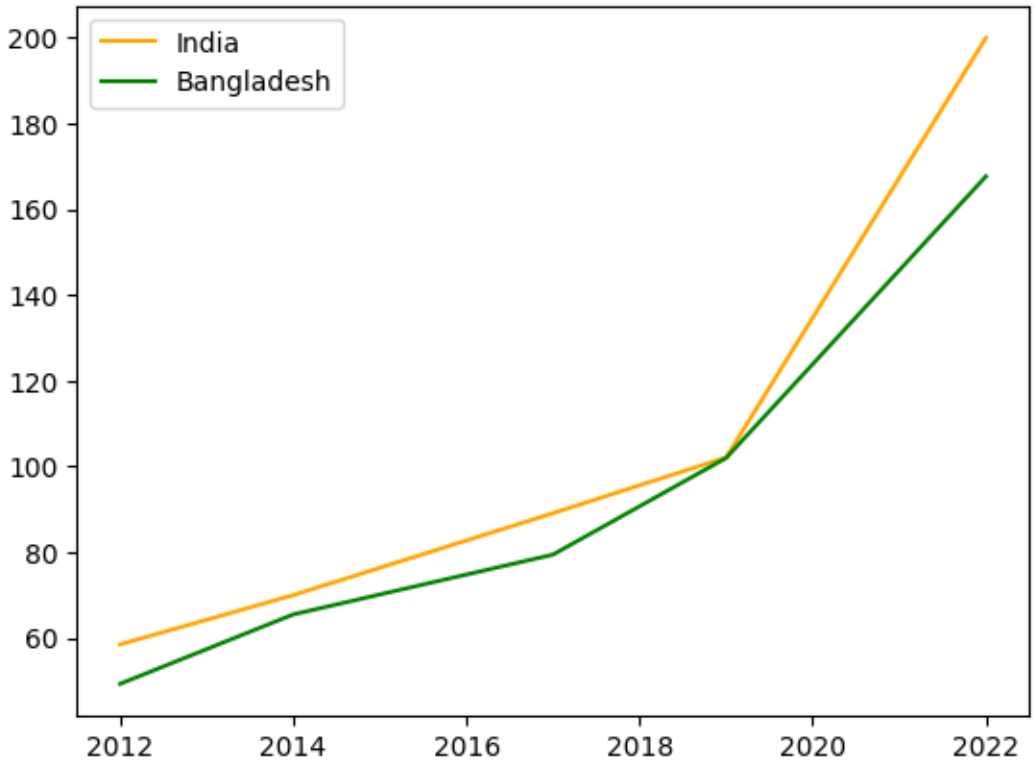
[ ]:
```
plt.plot(Year,India,color='orange')
plt.show()
```



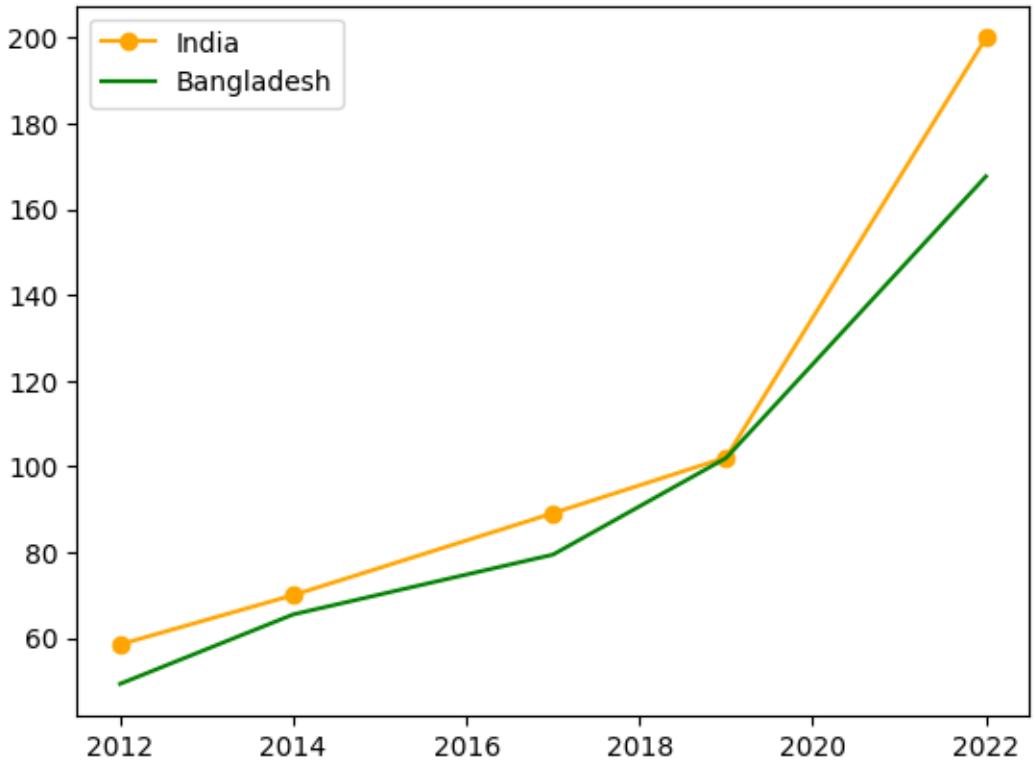
[ ]:
```
plt.plot(Year,India,color='orange')
plt.plot(Year,Bangladesh,color='green')
plt.show()
```



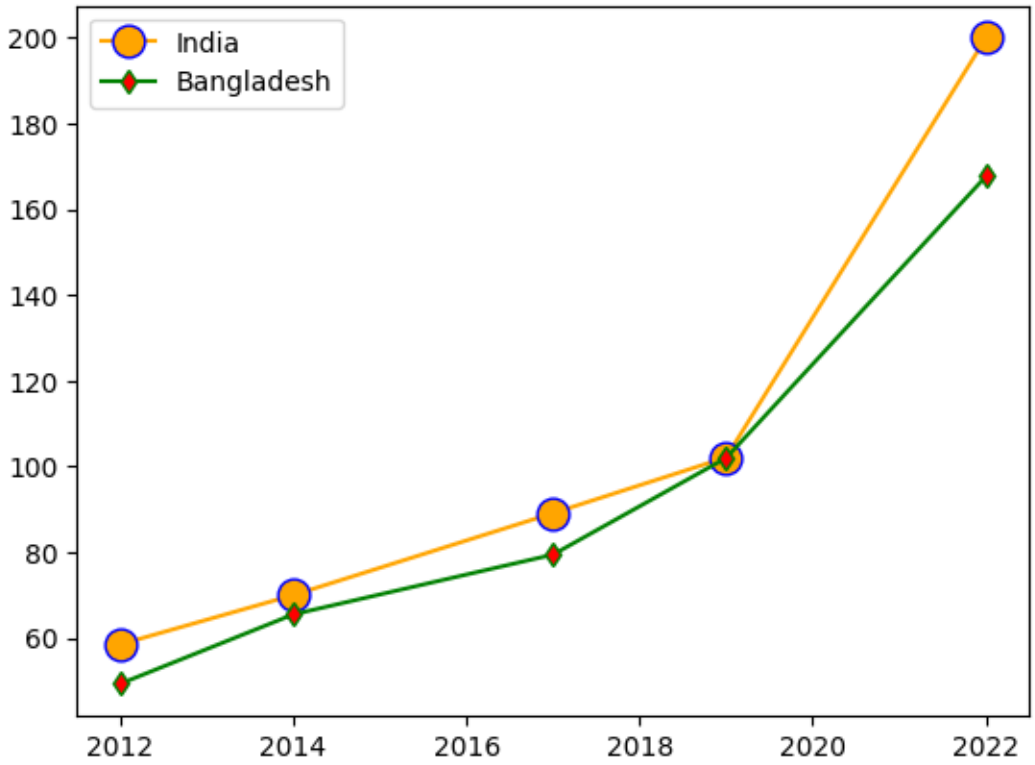
[ ]:
```
plt.plot(Year,India,color='orange',label="India")
plt.plot(Year,Bangladesh,color='green',label='Bangladesh')
plt.legend()
plt.show()
```



[ ]:
```
plt.plot(Year,India,color='orange',marker='o',label="India")
plt.plot(Year,Bangladesh,color='green',label='Bangladesh')
plt.legend()
plt.show()
```

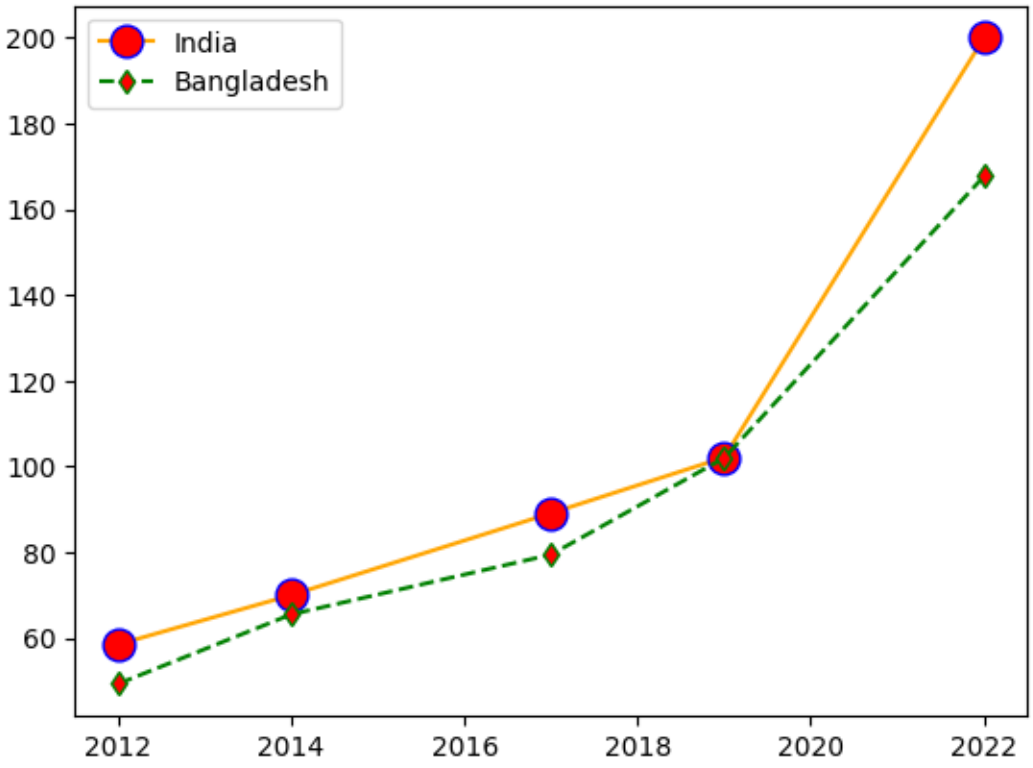


[ ]:
```
from matplotlib.markers import MarkerStyle
plt.
  ↪plot(Year,India,color='orange',marker='o',markersize=12,mec='b',label="India")
plt.plot(Year,Bangladesh,color='green',marker='d',mfc='r',label='Bangladesh')
plt.legend()
plt.show()
```



[ ]:

[ ]:
```
from matplotlib.markers import MarkerStyle
plt.
  ↪plot(Year,India,color='orange',marker='o',markersize=12,mec='b',mfc='r',label="India")
plt.
  ↪plot(Year,Bangladesh,color='green',marker='d',linestyle='--',mfc='r',label='Bangladesh')
plt.legend()
plt.show()
```


India
Bangladesh
200
180
160
140
120
100
80
60
2012
2014
2016
2018
2020
2022