In [2]:
```
%%writefile 10_displaydata.py
import streamlit as st
import pandas as pd
import time
import matplotlib.pyplot as plt
import numpy as np

st.title("Display data in streamlit")

data = {"Student":['A','B','C','D'],
       "Marks": [85,92,76,24],
       "Passed": [True,True,True,False]}

df = pd.DataFrame(data)
##
st.header("st.Dataframe")
st.dataframe(df)


st.header("st.static")
st.table(df)

## Json
st.subheader("json")
st.json(data)

## Media
st.header("Media display")
st.subheader("Image display")

st.image("https://picsum.photos/600/300",caption="Random image",use_containe
## Audio file-examples.com
st.header("Media display")
st.subheader("Audio example")
st.audio("audio.mp3")

## Video file-examples.com
st.header("Media display")
st.subheader("Video example")

st.video("video.mp4")

## Status
st.subheader("Status elements demo")
st.info("Useful information")
if st.button("Start long run"):
    progress = st.progress(0)
    with st.spinner("processing"):
        for i in range(100):
            time.sleep(0.03)
            progress.progress(i+1)
    st.success("Task completed!!")

## Matplotlib
st.subheader("Matplotlib based charts")
x = np.arange(1,11)
y = np.random.randint(50,100,size = 10)
st.subheader("Linechart")
plt.figure(figsize=(6,4))
plt.plot(x,y,'o')
plt.xlabel("Student Index")
```

```
plt.ylabel("Marks")
plt.title("Marks of 10 students")
st.pyplot(plt)

st.subheader(" streamlit based charts")
df1 = pd.DataFrame({'student':x,"Marks":y})
st.line_chart(df1)
```

```
Overwriting 10_displaydata.py
```

In [ ]:
```
%pip install typing_extensions --upgrade --user
```