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In [11]: import numpy as np
import matplotlib.pyplot as plt
import glob
import pandas as pd
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In [39]: data_files=glob.glob("*.txt")
f=open(data_files[0]) #Importing txt file
lines=f.readlines() #extracting each line from the file
N=int((lines[0].split())[0]) #extracting the number of splines
X=np.array([])
Y=np.array([])
frame_no=np.array([])
gaze_direction=np.array([])
nControl_pts=np.array([])
i=1
for a in range(N):
    n=int((lines[i].split())[0]) #number of control points in x'th spline
    i=i+1
    nControl_pts=np.append(nControl_pts,n)
    for b in range(i,n+i):
        vals=lines[b].split()
        X=np.append(X,float(vals[0]))
        Y=np.append(Y,float(vals[1]))
        frame_no=np.append(frame_no,float(vals[2]))
        gaze_direction=np.append(gaze_direction,float(vals[3]))
    i=i+n;
print(X.shape,Y.shape,frame_no.shape,nControl_pts.shape)

(1520,) (1520,) (1520,) (148,)
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In [55]: plt.figure(figsize=(32,20))
s=0
for a in nControl_pts:
    plt.plot(X[range(s,s+int(a))],Y[range(s,s+int(a))])
    s+=int(a)
plt.xlabel('X')
plt.ylabel('Y')
plt.show()
```

