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In [ ]:    #Code to scrap new data for dataset, written by group(original code)
           !pip3 install spotipy
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In [ ]:    #ALI'S CODE
           import spotipy
           from spotipy.oauth2 import SpotifyClientCredentials
           cid = 'cd50a99ce21e43bdb0f30bef64f02599'
           secret = 'ef69fefbf353421c93e1261c240d4294'
           client_credentials_manager = SpotifyClientCredentials(client_id=cid, client_secret=secret)
           sp = spotipy.Spotify(client_credentials_manager=client_credentials_manager)
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In [ ]:    #ALI'S CODE
           import csv

           playlist_ids = {'37i9dQZF1DX7qK8ma5wgG1':'Sad', '3XQ85blIpls4b6mq3LJDuF':'Energetic', '37i9dQZ
                           '37i9dQZF1DWTC99MCpbjP8':'Calm'}
           data = []

           for playlist in playlist_ids:
               tracks = sp.playlist_tracks(playlist)
               for item in tracks['items']:
                   track = item['track']
                   meta = sp.track(track['id'])
                   features = sp.audio_features(track['id'])

                   # meta
                   name = meta['name']
                   album = meta['album']['name']
                   artist = meta['album']['artists'][0]['name']
                   release_date = meta['album']['release_date']
                   length = meta['duration_ms']
                   popularity = meta['popularity']
                   ids =  meta['id']

                   # features
                   acousticness = features[0]['acousticness']
                   danceability = features[0]['danceability']
                   energy = features[0]['energy']
                   instrumentalness = features[0]['instrumentalness']
                   liveness = features[0]['liveness']
                   valence = features[0]['valence']
                   loudness = features[0]['loudness']
                   speechiness = features[0]['speechiness']
                   tempo = features[0]['tempo']
                   key = features[0]['key']
                   time_signature = features[0]['time_signature']

                   #mood
                   mood = playlist_ids[playlist]

                   line = [name, album, artist, ids, release_date, popularity, length, danceability, acou
                           energy, instrumentalness, liveness, valence, loudness, speechiness, tempo, key
                   data.append(line)

           with open('data/data_moods.csv', 'a', encoding='UTF8', newline='') as f:
               writer = csv.writer(f)
               writer.writerows(data)
```