rough > ...

```python
#mood-basedmusic detector
#by gaurav jain 25BET10044
import json
import random
from datetime import datetime
import os

#content

music_db= {
  "happy": [
    "gallan goodiyan",
    "aaj mai upar",
    "lover-taylor swift",
    "yellow-coldplay"
    ],
  "sad": [
    "maa",
    "agar tum sath ho-arijit singh",
    "daylight",
    "how soon is now-the smiths"
    ],
  "relax": [
    "kabira-pritam",
    "tumse hi-mohit chauhan",
    "sparks-coldplay",
    "video game-lanadel ray"
    ],
  "focus": [
    "bandeya re bandeya",
    "mast magan",
    "sparks"
    ],
```

```
10  music_db= {
23     relax : [
29    "focus": [
30      "bandeya re bandeya",
31      "mast magan",
32      "sparks"
33      ],
34    "energetic": [
35      "believer",
36      "thodi si daaru",
37      "sapphire",
38      "wavin flag"
39      ],
40    "old": [
41      "lag ja gale",
42      "kal chaudhvi ki raat thi"
43      ],
44    "romantic": [
45      "i wanna be yours",
46      "brooklyn baby",
47      "k",
48      "rang sharbaton ka"]
49  }
50
51  #history
52
53  history_file = "music_history.json"
54
55  def load_history():
56    if not os.path.exists(history_file):
57      return[]
58    with open(history_file, "r") as f:
59      return json.load(f)
```

```
    with open(history_file, "r") as f:
        return json.load(f)

def save_history(entry):
    history = load_history()
    history.append(entry)
    with open(history_file, "w") as f:
        json.dump(history, f, indent=4)

#moodfinding

def calculate_mood_score():
    print("\nAnswer honestly (1 = No, 2= Yes): ")
    q1 = int(input("\nDo you feel energetic today? "))
    q2 = int(input("Do you feel calm and peaceful? "))
    q3 = int(input("Do you feel sad or low? "))
    q4 = int(input("Are you excited or happy? "))
    q5 = int(input("Do you need to focus on your tasks? "))
    q6 = int(input("Are you feeling retro? "))
    q7 = int(input("Are you feeling romantic? "))
    scores = {
        "energetic": q1 + q4,
        "relax": q2,
        "sad": q3*2,
        "happy": q4,
        "focus": q5,
        "old": q6 + q2,
        "romantic": q7+ q4
    }
    #deciding mood
    mood = max(scores, key=scores.get)
```

```
    #deciding mood
    mood = max(scores, key=scores.get)
    return mood, scores[mood]

#generate playlist

def generate_playlist(mood,count=3):
    songs = music_db.get(mood, [])
    if len(songs) <=count:
        return songs
    return random.sample(songs, count)

#main finction

def main():
    print("===")
    print("MOOD MUSIC RECOMMENDER")
    print("===")

    name = input("Enter your name: ")
    mood, score = calculate_mood_score()
    playlist = generate_playlist(mood)

    print("\n based on your mood, we detected: ")
    print(f"--> mood: {mood.upper()} (score: {score})")
    print("\n your generated playlist:")
    for i, song in enumerate(playlist, 1):
        print(f"{i}. {song}")

        #save history
    entry = {
```

```
    mood, score = calculate_mood_score()
    playlist = generate_playlist(mood)

    print("\n based on your mood, we detected: ")
    print(f"--> mood: {mood.upper()} (score: {score})")
    print("\n your generated playlist:")
    for i, song in enumerate(playlist, 1):
      print(f"{i}. {song}")

        #save history
    entry = {
          "name": name ,
          "mood": mood,
          "score": score,
          "playlist": playlist,
          "time": datetime.now().strftime("%Y-%m-%d %H:%M:%S")
        }
    save_history(entry)
    print("\nYour playlist has been saved to history.")
    print("Run again to build new mood patterns")
    print("Thank you for using")

      #run
if __name__ == "__main__":
    main()
```

```
PS C:\Users\ASUS\.vscode\cli> & "C:\Program Files\Python314\python.exe" c:/Users/ASUS/.vscode/cli/rough
===
MOOD MUSIC RECOMMENDER
===
Enter your name: Gaurav

Answer honestly (1 = No, 2= Yes):

Do you feel energetic today? 1
Do you feel calm and peaceful? 1
Do you feel sad or low? 2
Are you excited or happy? 1
Do you need to focus on your tasks? 2
Are you feeling retro? 2
Are you feeling romantic? 1

 based on your mood, we detected:
--> mood: SAD (score: 4)

 your generated playlist:
1. agar tum sath ho-arijit singh
2. how soon is now-the smiths
3. maa

Your playlist has been saved to history.
Run again to build new mood patterns
Thank you for using
PS C:\Users\ASUS\.vscode\cli>
```