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class Melody:
    def __init__(self, title, artist, kind, time):
        self._title = title
        self._artist = artist
        self._kind = kind
        self._time = time

    def get_title(self):
        return self._title

    def get_artist(self):
        return self._artist

    def get_kind(self):
        return self._kind

    def get_time(self):
        return self.Unable to delete._time

    def set_title(self, title):
        self._title = title

    def set_artist(self, artist):
        self._artist = artist

    def set_kind(self, kind):
        self._kind = kind

    def set_time(self, time):
        self._time = time

    def __str__(self):
        return "Title {0}; Artist {1}; Kind {2}; Time {3}\n".format(self._title, self._artist, self._kind, self._time)

#def test_music():
#    melody1 = Melody("Astazi", "Zen", "Trap", 3.14)
#    print(melody1)
#    melody1.set_artist("Matei")
#    print(melody1)
def menu():
    print("1.Add new melody")
    print("2.Cut a melody using the title")
    print("3.The popular kind of music")
    print("4.The average time")
    print("0.Exit")

def read():
    title = input("Title: ")
    artist = input("Artist: ")
    kind = input("Kind: ")
    time = float(input("Time: "))
    return Melody(title, artist, kind, time)

def some_songs(songs):
    songs.append(Melody("Astazi", "Zen", "Trap", 3.14))
    songs.append(Melody("Ieri", "Marc", "Jazz", 2.36))
    songs.append(Melody("Cineva", "Zett", "Trap", 3.26))

def add(songs):
    song = read()

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        songs.append(song)
def find_position(songs, title):
    for i in range (len(songs)):
        if songs[i].get_title() == title:
            return i
    return -1
def remove(songs, title):
    position = find_position(songs, title)
    if position == -1:
        print("Unable to delete")
    else:
        del songs[position]
        print("Deleted")
def find_in_fr(Kind, Number, kind):
    ok = 0
    for i in range (len(Kind)):
        if Kind[i] == kind:
            Number[i] +=1
            ok = 1
    if ok == 0:
        Kind.append(kind)
        Number.append(1)
def popular_kind(songs):
    Kind = []
    Number = []
    for text in songs:
        find_in_fr(Kind, Number, text.get_kind())
    maxi = 0
    kind = "nothing"
    for i in range (len(Number)):
        if maxi < Number[i]:
            maxi = Number[i]
            kind = Kind[i]
    print("The popular kind is {0} with {1} songs".format(kind, maxi))
def average_time(songs):
    sum = 0
    for song in songs:
        sum += song.get_time()
    print("The average is ", sum/len(songs))

def main_run():
    songs = []
    some_songs(songs)
    while True:
        menu()
        command = input ("Choose: ").strip()
        if command == '0':
            break
        elif command == '1':
            add(songs)
            print("Song added")
        elif command == '2':
            title = input("Give title: ")
            remove(songs, title)
        elif command == '3':
            popular_kind(songs)
        elif command == '4':
            average_time(songs)

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else: print("Not a valid command")
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main_run()
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