

Music Album

Problem ID: a17p02musicalbum

Write a class called `MusicAlbum` that has the attributes: “band”, “title” and “year”.
The class should have 3 methods:

- `__init__(band, title, year)`: Should accept 3 parameters, a band name, album title, and a year. By default the band name should be “unknown band”, title by default should be “unknown” and the year should be “unknown year” by default.
- `set_album(band, title, year)`: Should overwrite attributes in the class. If a field is not supplied in the parameter, the default is the same as in the constructor.
- `__str__()`: Should return a string representation of the album, see output example below.

Note: It can happen that you might have to overwrite existing data with a default value, when calling `set_album`.

Note: You should **not** submit the main program as part of your solution, only the file that contains the class `MusicAlbum`.

The following is an example main program. This example is also included in the supplied “`main.py`” file:

```
album = MusicAlbum()
print(album)

album.set_album("Talking Heads", "Remain in Light", 1980)
print(album)

album.set_album("AC/DC", "Back in Black")
print(album)

album_beatles = MusicAlbum("The Beatles", "Abbey Road")
album_london_calling = MusicAlbum(title="London Calling", year=1979)
album_beyonce = MusicAlbum(band="Beyonce", year=2016)

print(album_beatles)
print(album_london_calling)
print(album_beyonce)
```

Output

The following is the corresponding output for the sample program given above:

```
Album unknown by unknown band, released in unknown year.
Album Remain in Light by Talking Heads, released in 1980.
Album Back in Black by AC/DC, released in unknown year.
Album Abbey Road by The Beatles, released in unknown year.
Album London Calling by unknown band, released in 1979.
Album unknown by Beyonce, released in 2016.
```