HOMEWORK

Task 6

Create *playSong()* method inside the **Playlist** class to produce the following output.

Driver Code	Output

```System.out.println("10=========");```
```//   Continuation from Task 5```
```p1.playSong("Song-F");```
```p1.playSong("Song-Z");```
```p1.playSong("Song-B");```
```System.out.println("11=========");```
	```10=========```
	```Playing Song-F by Artist-F.```
	```Song-Z not found in First Playlist.```
	```Playing Song-B by Artist-B.```
	```11=========```

Task 7

Create the *playSong()* [overloaded] method inside the **Playlist** class to produce the following output.

Driver Code	Output

```System.out.println("11=========");```
```// Continuation from Task 6```
```p1.playSong(0);```
```p1.playSong(4);```
```p1.playSong(10);```
```System.out.println("12=========");```
	```11=========```
	```Playing Song-G by Artist-G.```
	```Playing Song-D by Artist-D.```
	```Song at Index 10 not found in First```
	```Playlist.```
	```12=========```

Task 8

Create the *deleteSong()* method and its overloaded version inside the **Playlist** class to produce the following output.

Driver Code	Output
| ```
System.out.println("12=========");
p1.deleteSong();
p1.deleteSong();
p1.deleteSong(false);
p1.deleteSong(true);
System.out.println("13=========");
p1.info();
System.out.println("14=========");
``` | ```
12=========
Song-I deleted from First Playlist
Song-H deleted from First Playlist
Song-F deleted from First Playlist
First Song Deleted!
13=========
First Playlist has the following songs:
Song-1
Title: Song-A,  Artist: Artist-A
Length: 3 minutes
Song-2
Title: Song-B,  Artist: Artist-B
Length: 4 minutes
Song-3
Title: Song-C,  Artist: Artist-C
Length: 2 minutes
Song-4
Title: Song-D,  Artist: Artist-D
Length: 3 minutes
Song-5
Title: Song-E,  Artist: Artist-E
Length: 4 minutes
14=========
``` |

Task 9

Create the *totalSong()* method inside the **Playlist** class to produce the following output.

Driver Code	Output
| ```
    System.out.println("14=========");
//    Continuation from Task 8
    System.out.println(p1.name +" has "+p1.totalSong()
+" songs");
    System.out.println("15=========");
``` | ```
14=========
First Playlist has 5 songs
15=========
``` |

Task 10

Create the *merge()* method inside the **Playlist** class to produce the following output.

Driver Code	Output

```System.out.println("15=========");```
`// Continuation from Task 9`
`Song ns1 = new Song("Song-Z", "Artist-Z", 3);`
`Song ns2 = new Song("Song-Y", "Artist-Y", 4);`
`Song ns3 = new Song("Song-X", "Artist-X", 2);`
`System.out.println("16=========");`
`Playlist p2 = new Playlist("Second Playlist");`
`p2.addSong(ns1);`
`p2.addSong(ns2);`
`p2.addSong(ns3);`
`System.out.println("17=========");`
`p1.info();`
`System.out.println("18=========");`
`p2.info();`
`System.out.println("19=========");`
`p1.merge(p2);`
`System.out.println("20=========");`
`p1.info();`
`System.out.println("21=========");`
	`15==========`
	`16==========`
	`Second Playlist created.`
	`Song-Z added to Second Playlist.`
	`Song-Y added to Second Playlist.`
	`Song-X added to Second Playlist.`
	`17==========`
	`First Playlist has the following`
	`songs:`
	`Song-1`
	`Title: Song-A,  Artist: Artist-A`
	`Length: 3 minutes`
	`Song-2`
	`Title: Song-B,  Artist: Artist-B`
	`Length: 4 minutes`
	`Song-3`
	`Title: Song-C,  Artist: Artist-C`
	`Length: 2 minutes`
	`Song-4`
	`Title: Song-D,  Artist: Artist-D`
	`Length: 3 minutes`
	`Song-5`
	`Title: Song-E,  Artist: Artist-E`
	`Length: 4 minutes`
	`18==========`
	`Second Playlist has the following`
	`songs:`
	`Song-1`
	`Title: Song-Z,  Artist: Artist-Z`
	`Length: 3 minutes`
	`Song-2`
	`Title: Song-Y,  Artist: Artist-Y`
	`Length: 4 minutes`
	`Song-3`
	`Title: Song-X,  Artist: Artist-X`
	`Length: 2 minutes`
	`19==========`
	`Merge Completed!`
	`20==========`
	`First Playlist has the following`
	`songs:`
	`Song-1`
	`Title: Song-A,  Artist: Artist-A`

| | ```
Length: 3 minutes
Song-2
Title: Song-B,  Artist: Artist-B
Length: 4 minutes
Song-3
Title: Song-C,  Artist: Artist-C
Length: 2 minutes
Song-4
Title: Song-D,  Artist: Artist-D
Length: 3 minutes
Song-5
Title: Song-E,  Artist: Artist-E
Length: 4 minutes
Song-6
Title: Song-Z,  Artist: Artist-Z
Length: 3 minutes
Song-7
Title: Song-Y,  Artist: Artist-Y
Length: 4 minutes
Song-8
Title: Song-X,  Artist: Artist-X
Length: 2 minutes
21==========
``` |