



JAVA BASICS

Training Assignments


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RECORD OF CHANGES

No	Effective Date	Change Description	Reason	Reviewer	Approver
1.	01/Oct/2018	Create new	Draft	DieuNT1	VinhNV
2.	01/Jun/2019	Fsoft template	Update	DieuNT1	VinhNV

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	CODE:	JAVA.M.A401
	TYPE:	MEDIUM
	LOC:	190
	DURATION:	90 MINUTES

Day 5. Assignment 4: Java Collections

Objectives:

- » To understand basic concept of ArrayList
- » To declare ArrayList of strings and use common methods of ArrayList
- » Use ArrayList to solve simple problems.

Specifications:

The **Multimedia** abstract class has some of attributes: *name*, *duration* (minutes, double), setter/getter/constructor methods and concrete **createMultimedia()** method to input value for all of attributes.

The **Song** class inherits from Multimedia has an additional attribute: *singer*, and some of following methods:

- Default constructor.
- Constructor has 3 parameters to initialize value of attributes.
- Method **createSong()** to create a new song, calls createMultimedia() method of super class.
- Override the method **toString()** that returns song information.

The **Video** class inherit from Multimedia has some additional following methods:

- Default constructors.
- Constructor has 2 parameters to initialize value of attributes.
- Method **createVideo()** to create a new video, , calls createMultimedia() method of super class.
- Override the method **toString()** that returns video information.

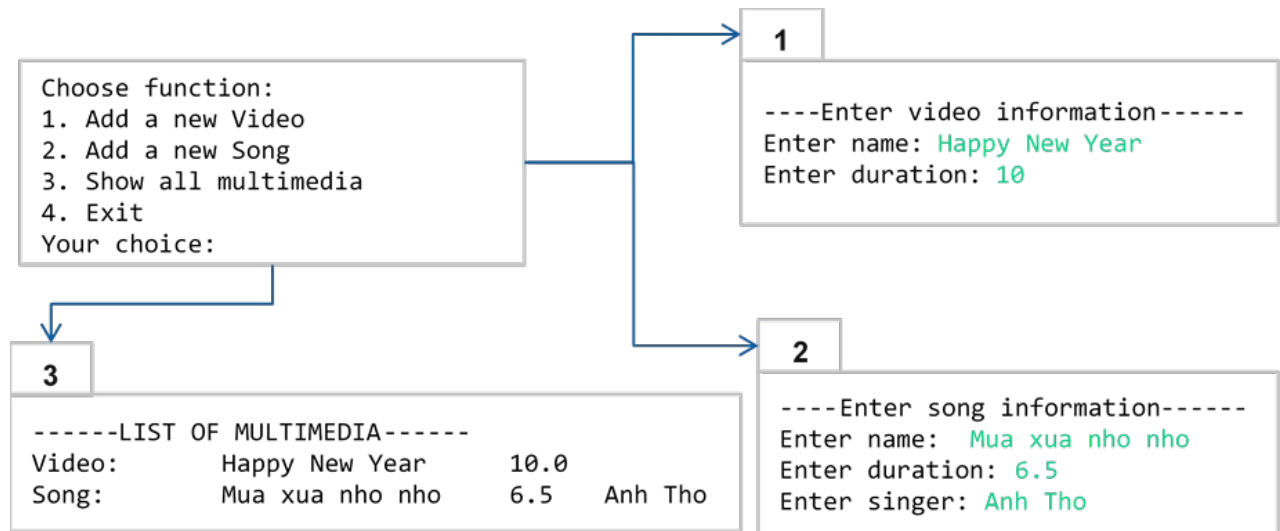
A class named **MultimediaManagement** that has an attribute: **List<Multimedia> listOfMultimedia** and some of following methods:

- Constructor have 1 parameter to initialize a new **listOfMultimedia**.
- **addMultiMedia(Multimedia multimedia)** to add a new multimedia to list.
- **displayMultiMedia()** to display list of multimedia.

Functional Requirements

- » Write a java console program to resolve this assignment.

Screen Requirements



Guidelines:

- » Create a new project named **Java.M.A401**.
- » Package **fa.training.entities** that contains three classes: Multimedia, Song, Video.
- » Package **fa.training.management** that contains class: MultimediaManagement.
- » Package **fa.training.main** contains class: **Test** that contains main() method to run program.