

Student Name \_\_\_\_\_ Section \_\_\_\_\_  
Instructor \_\_\_\_\_ Due Date \_\_\_\_\_

Thoroughly read the objectives, instructions and requirements of the given packet and then use suitable electronic technology tools to solve the projects. Submit both your program source code, with your name, date and course information in the heading portion of your code, as well as the required output(s). Design your application professionally and code it efficiently.

**Project ( Playing Sound in an Applet )** **100 Points** \_\_\_\_\_ **score**

**Objective** To study Java applets.

### **PROJECT DESCRIPTION**

For this project you will create an applet that will play music through a Web browser.

#### **Information About This Project**

An applet is a program written in the Java programming language that can be included in an HTML page, in the same way that a graphics image is included.

#### **Steps To Complete This Project**

##### **STEP 1 Open the JCreator Program**

Open JCreator. From the JCreator main menu, click **File** and choose **New...**. When the **New** window opens, click the **Files** tab. Within the **Files** tab and with the Java File icon selected, click the **Filename** field and enter the appropriate file name. In this case, use the file name `PlaySoundApplet` since this is the class name for this project. Click **OK** to close the **New** dialog box.

The code for this file will be copied from an Internet Web site and thus you will not yet type any code within the Java file.

##### **STEP 2 Open a Web Browser and Visit the Designated Web Site**

On Visit the following URL:

<http://www.javareference.com/jrexamples/viewexample.jsp?id=20>

##### **STEP 3 Copy the Java Class File Source Code**

On Visit the following URL:

In the **Example Code:** section, copy the applet code shown and paste it into your own `PlaySoundApplet` file located within the JCreator editor.

##### **STEP 4 Compile the Java Class File**

Within JCreator, compile the code as a java file.

##### **STEP 5 Using Notepad, Create the HTML Web Page**

Open Notepad. Return to the above URL and copy the HTML applet code listed within the **Demonstration:** section. Paste the code in Notepad.

If necessary, insert opening and closing `<HEAD>` tags around the Title of the Web page.

Save the Web page as **SoundApplet.html**.

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**Project (Playing Sound in an Applet)****STEP 6 Download a Sound File**

Download your own sound file ( .au format ) from the Internet so that it can play in your browser. Be sure to include the sound file ( .au file ) in the the same folder as your HTML file before you run the applet in your browser.

Also note that you should adjust the HTML ( see the line below ) that has " spacemusic.au " in the <PARAM> tag. Obviously, this needs to be modified to the file name that corresponds to the file you downloaded from the Web.

adjust here:

```
<PARAM NAME = SoundFileName VALUE = "spacemusic.au">
```

Extra credit will be given if you provide users with more than one song.

A good place to search for .au audio files ( the only acceptable file format for music files through an applet ) is

<http://www.freeaudioclips.com>

or search for other sites.

**STEP 7 Test your Application**

You will need to run your applet in Windows. The files needed to run your applet will be your .class file, your .html file and of course your sound file ( .au file ).

**STEP 8 Print your Print**

Print the following when finished:

- the source code ( .java file )
- the HTML source file ( .html file )
- the applet as viewed in a browser

Submit the documents for credit.