Pong 6: Sound

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Time required: 30 minutes

Comment each line of code as shown in the tutorials and other code examples.

Follow all directions carefully and accurately. Think of the directions as a minimum requirement.

Simple Pong Project Sequence

To give you an idea of what this project entails, here is the project sequence. If you are being creative with the project, you might want to wait until you get to that stage of the project.

- 1. Moving Ball
- 2. Bouncing Ball
- 3. Keyboard Input
- 4. Collision Detection
- 5. Scoring and Speed
- 6. Sound

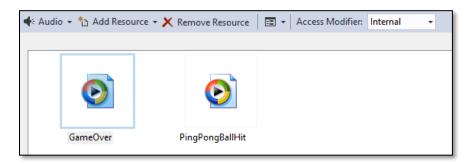
Program Description

Let's add some sound to our game to finish this project and make it snazzy!

Resources

Add GameOver.wav and PingPongBallHit.wav to the Resources of the project. These files are attached to this assignment.

- 1. Go to the Project Menu, Simple Pong Properties.
- 2. Click on Resources.
- 3. Click the down triangle next to Images and choose Audio.
- 4. Click Add Resource to add each wav file to the project.



The Code

 Add the following directive to the top of the program as shown: using System.Media;

```
using System;
using System.Collections.Gener
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Torms;
using System.Media;
```

2. Add the following **SoundPlayer** objects to the existing form level variables and constants.

```
public partial class Form1 : Form
   const int WIN = 10;
                                  // How many games it takes to win
   const int INCREASE_SPEED = 1; // Increase game speed factor
   int playerScore = 0;
                                  // Track player score
   int computerScore = 0;
                                  // Track computer score
   const int DISTANCE_FROM_EDGE = 10; // Distance of computer paddle from edge of playing field
   int ComputerPaddleSpeed = 5;
                                  // Set the Computer paddle speed in pixels
                 // Boolean used to store keyboard up arrow status
   bool GoDown; // Boolean used to store keyboard down arrow status
   const int PLAYER_PADDLE_SPEED = 8; // Set the Player paddle speed in pixels
   const int TIME_DELAY = 10; // How "fast" the game runs
                            // X movement speed constant
   const int SPEED_X = 2;
                            // Y movement speed constant
   const int SPEED_Y = 2;
                              // Set horizontal movement/speed of the ball in pixels, based on SPEED X
   int MoveX = SPEED X;
                             // Set vertical movement/speed of the ball in pixels, based on SPEED_Y
   int MoveY = SPEED_Y;
   // Create Soundplayer Objects
   SoundPlayer ballPlay = new SoundPlayer(Properties.Resources.PingPongBallHit);
   SoundPlayer gameOverPlay = new SoundPlayer(Properties.Resources.GameOver);
```

3. Modify the following code to the end of the **KeepScore()** method to play an endgame sound.

4. Modify the **DetectCollision()** method to give a paddle sound.

Congratulations! You have completed the Simple Pong game!

With what you have learned, how can you modify and enhance this game to make it more interesting?