```
using Microsoft.Xna.Framework;
 2 using Microsoft.Xna.Framework.Graphics;
 3 using System;
 4 using System.Collections.Generic;
 5 using System.Text;
 6
 7 namespace GameDemo.Shared
8 {
9
        public enum ENEMY_TYPES { SKELETON = 1, BOULDER = 2, AXE = 3, GHOST = 4 }
10
11
        public class Enemy : Sprite
12
13
14
           bool isVisible;
           public float startingYpos;
15
16
17
           ENEMY_TYPES type;
18
19
20
           // shows whether the player is visible
21
           public bool Visibility
22
           { get { return isVisible; } }
23
24
           public ENEMY_TYPES Type
25
26
27
                get { return (ENEMY_TYPES) type; }
28
                set { type = value; }
29
           }
30
31
           public Vector2 Speed
32
           {
33
                get { return speed; }
34
            }
35
36
           public Enemy(ENEMY_TYPES enemyType,Texture2D texture, Vector2
              position, Point frameSize,
37
                int totalFrames, Vector2 collisionOffset, Point currentFrame,
                  Point sheetSize,
               Vector2 speed,int secondsperframe,float scale)
38
39
                : base(texture, position, frameSize, totalFrames, collisionOffset, →
40
                   currentFrame, sheetSize, speed,scale)
41
           {
42
                millisecondsPerFrame = secondsperframe;
43
                startingYpos = position.Y;
44
                type = enemyType;
45
           }
46
47
           // get the collision rectangle
           public override Rectangle collisionRect()
48
49
50
                if(this.type==ENEMY_TYPES.BOULDER)
51
                      return new Rectangle((int)position.X-frameSize.X, (int)
                       position.Y-frameSize.Y, (int)((float)this.frameSize.X *
                        scale - collisionOffset.X), (int)((float)this.frameSize.Y →
```

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```

```
2
```

```
* scale - this.collisionOffset.Y));
 52
                 else
                     return new Rectangle((int)position.X, (int)position.Y, (int)
 53
                                                                                        P
                        ((float)this.frameSize.X*scale-collisionOffset.X),(int)
                        ((float)this.frameSize.Y*scale- this.collisionOffset.Y));
 54
             }
 55
 56
             // where the enemies spawn
 57
             public virtual TimeSpan Spawn(GameTime gameTime)
 58
 59
                 switch (type)
 60
                 {
                      case ENEMY_TYPES.AXE:
 61
 62
                          {
                              isVisible = true;
 63
 64
                              position.X = 1900;
 65
                              //position.Y = 800;
 66
                              break;
 67
                          }
 68
                     case ENEMY_TYPES.SKELETON:
 69
                          {
 70
                              isVisible = true;
 71
                              position.X = 1900;
 72
                              //position.Y = 800;
                              break;
 73
                          }
 74
 75
                      case ENEMY_TYPES.BOULDER:
 76
 77
                              isVisible = true;
 78
                              position.X = 1900;
 79
 80
                              position.Y = 400;
 81
                              break;
 82
                          }
                     case ENEMY_TYPES.GHOST:
 83
 84
                              isVisible = true;
 85
 86
                              position.X = 1900;
 87
                              position.Y = 500;
 88
                              break;
 89
 90
                 }
 91
                 return gameTime.TotalGameTime;
 92
             public void Behaviour(GameTime gameTime, ref float timeOnScreen) {
 93
 94
 95
                 switch (type)
 96
                 {
 97
                      case ENEMY_TYPES.AXE:
 98
                          {
 99
                              position.X -= Speed.X;
                              if (position.X < -200 \mid \mid position.X > 1920)
100
101
                                  isVisible = false;
102
                              break;
103
                          }
104
                     case ENEMY TYPES.SKELETON:
```

```
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105
106
                             position.X -= Speed.X;
                             if (position.X < -200 || position.X > 1920)
107
108
                                  isVisible = false;
109
                             break;
110
                         }
                     case ENEMY_TYPES.BOULDER:
111
112
                         {
113
                             position.X -= Speed.X;
114
                             if (position.X < 0 || position.X > 1920)
115
                                 isVisible = false;
116
                             position = Movement.Bouncing(position, 3, gameTime, ref →
                         timeOnScreen);
117
                             break;
                         }
118
119
                     case ENEMY_TYPES.GHOST:
120
                         {
121
                             position.X -= Speed.X;
122
                             if (position.X < 0 || position.X > 1920)
123
                                  isVisible = false;
124
                             position = Movement.SinWave(position, 20, 0.2,
                         gameTime,ref timeOnScreen);
125
                             break;
126
                         }
127
                 }
             }
128
129
             public override void Draw(GameTime gametime, SpriteBatch spritebatch, →
130
               float scale, SpriteEffects spriteEffects)
131
132
                 if(isVisible)
133
                 base.Draw(gametime, spritebatch, scale, spriteEffects);
134
135
             }
136
             public void DrawRotating(GameTime gametime, SpriteBatch spritebatch,
137
               float scale, SpriteEffects spriteEffects,float rotation)
138
139
                 if(isVisible)
140
                 spritebatch.Draw(Texture, position, new Rectangle(currentFrame.X * →
                    frameSize.X, currentFrame.Y * frameSize.Y, frameSize.X,
                   frameSize.Y), Color.White, rotation, new Vector2
                   (frameSize.X/2,frameSize.Y/2), scale, spriteEffects, 0);
141
             }
142
         }
143 }
144
```