

```
1  using SplashKitSDK;
2  using System.Security.Cryptography.X509Certificates;
3
4
5  namespace NitsMercenary
6  {
7      public class Program
8      {
9          private enum RoomType
10         {
11             JohnStreet,
12             Library,
13             BA,
14             ATC,
15             Dungeon,
16             Winner
17         }
18
19         private enum PlayerType
20         {
21             cartoon,
22             witch
23         }
24         public static void Main()
25         {
26             Player player;
27             Window window = new Window("NitsAdeventure", 600, 600);
28
29             int score = 0;
30
31             bool Entered;
32
33             Font font = SplashKit.LoadFont("score", "fonts/arial.ttf");
34             Music BackgroundMusic = SplashKit.LoadMusic("background",
35                 "songs/song.mp3");
36             SplashKit.PlayMusic(BackgroundMusic, -1);
37
38             RoomType CurrentRoomType = RoomType.JohnStreet;
39             PlayerType CurrentPlayerType = PlayerType.cartoon;
40
41             WitchPlayerAnimation witchplayerani = new("witch", "witch
42                 player animation", 300, 550);
43             CartoonPlayerAnimation cartoonplayerani = new("cartoon",
44                 "cartoon player animation", 300, 550);
45             EnemyAnimation enemyani = new("enemy", "enemy animation", 550,
46                 540); //enemy in ATC
47             EnemyAnimation enemyani2 = new("enemy", "enemy animation", 10,
48                 340); //enemy in ATC
49             EnemyAnimation enemyani3 = new("enemy", "enemy animation",
```

```
550, 373); //enemy in library
45     EnemyAnimation enemyani4 = new("enemy", "enemy animation",
300, 430); // enemy in BA
46     EnemyAnimation enemyani5 = new("enemy", "enemy animation",
300, 490); // enemy in Dungeon
47     List<EnemyAnimation> enemies = new List<EnemyAnimation>();
48     enemies.Add(enemyani);
49     enemies.Add(enemyani2);
50     enemies.Add(enemyani3);
51     enemies.Add(enemyani4);
52     enemies.Add(enemyani5);
53
54     Room JohnStreet = new JohnStreet(new string[]
{ "JohnStreet" }, "JohnStreet");
55     Room Library = new Library(new string[] { "Library" },
"Library");
56     Room ATC = new ATC(new string[] { "ATC" }, "ATC");
57     Room BA = new BA(new string[] { "BA" }, "BA");
58     Room Dungeon = new Dungeon(new string[] { "Dungeon" },
"Dungeon");
59     Room Winner = new Winner(new string[] { "Winner" },
"Winner");
60
61     // to create a point between player and enemy to discern
// distance between them
62     Player player1 = new("witchboundary", "witchboundary", 0, 0);
63     player = cartoonplayerani;
64
65     PlayerInterface playerInterface;
66     playerInterface = player1;
67     do
68     {
69         Room CurrentRoom;
70         player1.X = witchplayerani.X + 20;
71
72         //Keep track if a user has entered or exited a room
73         Entered = false;
74
75         SplashKit.ProcessEvents();
76         SplashKit.ClearScreen();
77         window.Clear(Color.White);
78         CurrentRoom = new JohnStreet(new string[]
{ "JohnStreet" }, "JohnStreet");
79
80         //display score
81         string ScoreText = $"GOLD {score.ToString()}G";
82
83         //if the player enters a certain coordiantes it changes
// current room to the new room it entered or exited
```

```
85             if ((cartoonplayerani.PlayerIsAt(270, 90, 380, 0)) && →
86                 (CurrentRoomType == RoomType.JohnStreet))
87             {
88                 Entered = true;
89                 CurrentRoomType = RoomType.Library;
90             }
91             if ((cartoonplayerani.PlayerIsAt(0, 320, 110, 120)) && →
92                 (CurrentRoomType == RoomType.JohnStreet))
93             {
94                 Entered = true;
95                 CurrentRoomType = RoomType.BA;
96             }
97             if ((cartoonplayerani.PlayerIsAt(490, 320, 600, 120)) && →
98                 (CurrentRoomType == RoomType.JohnStreet))
99             {
100                Entered = true;
101                CurrentRoomType = RoomType.ATC;
102            }
103            if ((cartoonplayerani.PlayerIsAt(380, 394, 470, 340)) && →
104                (CurrentRoomType == RoomType.JohnStreet))
105            {
106                Entered = true;
107                CurrentRoomType = RoomType.Dungeon;
108            }
109            // exits room to go back to john street
110            if ((witchplayerani.PlayerIsAt(97, 530, 127, 446)) && →
111                (CurrentRoomType == RoomType.ATC) && (SplashKit.KeyDown →
112                    (KeyCode.SpaceKey)))
113            {
114                Entered = true;
115                CurrentRoomType = RoomType.JohnStreet;
116                CurrentRoom.PlayerStartingPos(cartoonplayerani, 470, →
117                    300);
118            }
119            if ((witchplayerani.PlayerIsAt(20, 420, 60, 370)) && →
120                (CurrentRoomType == RoomType.BA) && (SplashKit.KeyDown →
121                    (KeyCode.SpaceKey)))
122            {
123                Entered = true;
124                CurrentRoomType = RoomType.JohnStreet;
125                CurrentRoom.PlayerStartingPos(cartoonplayerani, 131, →
126                    228);
127            }
128            if ((witchplayerani.PlayerIsAt(9, 363, 39, 310)) && →
129                (CurrentRoomType == RoomType.Library) && →
130                (SplashKit.KeyDown(KeyCode.SpaceKey)))
131            {
132                Entered = true;
133                CurrentRoomType = RoomType.JohnStreet;
```

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```
122             CurrentRoom.PlayerStartingPos(cartoonplayerani, 335, ↵
123             99);
124         }
125         if ((witchplayerani.PlayerIsAt(50, 480, 90, 430)) && ↵
126             (CurrentRoomType == RoomType.Dungeon) && ↵
127             (SplashKit.KeyDown(KeyCode.SpaceKey)))
128     {
129         Entered = true;
130         CurrentRoomType = RoomType.JohnStreet;
131         CurrentRoom.PlayerStartingPos(cartoonplayerani, 378, ↵
132             412);
133     }
134     if (score >= 100)
135     {
136         Entered = true;
137         CurrentRoomType = RoomType.Winner;
138     }
139
140     //when a new room is assigned it changes the room object ↵
141     //and player type object
142     switch (CurrentRoomType)
143     {
144         case RoomType.JohnStreet:
145             CurrentRoom = JohnStreet;
146             CurrentPlayerType = PlayerType.cartoon;
147             player.Room = CurrentRoom;
148             break;
149         case RoomType.Library:
150             CurrentRoom = Library;
151             CurrentPlayerType = PlayerType.witch;
152             player.Room = enemyani3.Room = CurrentRoom;
153             if (Entered) { CurrentRoom.PlayerStartingPos ↵
154                 (witchplayerani, 29, 363); }
155             break;
156         case RoomType.ATC:
157             CurrentRoom = ATC;
158             CurrentPlayerType = PlayerType.witch;
159             player.Room = enemyani1.Room = enemyani2.Room ↵
160             =CurrentRoom;
161             if (Entered) { CurrentRoom.PlayerStartingPos ↵
162                 (witchplayerani, 100, 530); }
163             break;
164         case RoomType.BA:
165
166             CurrentRoom = BA;
167             CurrentPlayerType = PlayerType.witch;
168             player.Room = enemyani4.Room = CurrentRoom;
169             if (Entered) { CurrentRoom.PlayerStartingPos ↵
170                 (witchplayerani, 20, 420); }
```

```
162                     break;
163             case RoomType.Dungeon:
164                 CurrentRoom = Dungeon;
165                 CurrentPlayerType = PlayerType.witch;
166                 player.Room = enemyani5.Room = CurrentRoom;
167                 if (Entered) { CurrentRoom.PlayerStartingPos
168 (witchplayerani, 40, 480); }
169                     break;
170             case RoomType.Winner:
171                 CurrentRoom = Winner;
172                 CurrentPlayerType = PlayerType.witch;
173                 player.Room = CurrentRoom;
174                 if (Entered) { CurrentRoom.PlayerStartingPos
175 (witchplayerani, 100, 500); }
176                     break;
177     }
178     CurrentRoom.Draw();
179
180     // Draws current player type
181     if (CurrentPlayerType == PlayerType.cartoon)
182     {
183         player = cartoonplayerani;
184         cartoonplayerani.Draw();
185         cartoonplayerani.Update();
186     }
187     if (CurrentPlayerType == PlayerType.witch &&
188 ((CurrentRoomType == RoomType.BA || CurrentRoomType ==
189 RoomType.ATC || CurrentRoomType == RoomType.Library ||
190 CurrentRoomType == RoomType.Dungeon )))
191     {
192         foreach (var enemy in enemies)
193         {
194             if (enemy.Room == CurrentRoom)
195             {
196                 enemy.Draw();
197                 enemy.Update();
198                 player1.Y = enemy.Y + 5;
199                 //animation of enemy changes to death when
200                 //distance between enemy and player are close and skill is
201                 //used by pressing mouse left click
202                 if (player1.PlayerIsAt(player.X, player.Y +
203 20, enemy.X, enemy.Y) && SplashKit.MouseClicked
204 (MouseButton.LeftButton) && (enemy.X - player.X <= 170) &&
205 (player.Y - enemy.Y <= 30) && !enemy.Dead)
206             {
207                 enemy.EnemyWalkAni.Assign("noanimation2");
208                 enemy.EnemyDieAni.Assign("dies");
209                 enemy.Dead = true;
210                 score += 10;
```

```
201                         }
202                         // player is dead if enemy touches player and ↵
203                         player respawns
204                         else if (player1.PlayerIsAt(player.X, player.Y ↵
205 + 20, enemy.X, enemy.Y) && (enemy.X - player.X <= 20) ↵
206 && (player.Y - enemy.Y <= 30))
207                         {
208                             for (int i = 0; i < 10000000000; i++)
209                             {
210                                 i += 1;
211                             }
212                             if (CurrentRoomType == RoomType.ATC)
213                             {
214                                 CurrentRoom.PlayerStartingPos
215 (witchplayerani, 100, 530);
216                             }
217                             if (CurrentRoomType == RoomType.BA)
218                             {
219                                 CurrentRoom.PlayerStartingPos
220 (witchplayerani, 20, 420);
221                             }
222                             if (CurrentRoomType == RoomType.Library)
223                             {
224                                 CurrentRoom.PlayerStartingPos
225 (witchplayerani, 29, 363);
226                             }
227                             if (CurrentRoomType == RoomType.Dungeon)
228                             {
229                                 CurrentRoom.PlayerStartingPos
230 (witchplayerani, 40, 480);
231                             }
232                         }
233                         score = 0;
234                         }
235                         }
236                         }
237                         }
238                         // coordinates for debugging purposes
239                         }
240                         //Console.WriteLine($"X: {player1.X} Y: {player1.Y}");
241                         //Console.WriteLine($"enemy X: {enemynani.X} enemy Y: ↵
```

```
242             {enemyani.Y}");
243             //Console.WriteLine($"enemy2 X: {enemyani2.X} enemy2 Y:      ↵
244             {enemyani2.Y}");
245             //Console.WriteLine($"player X: {player.X} player Y:      ↵
246             {player.Y} \n {enemyani.X - player.X}\n");
247             // Console.WriteLine($"X: {SplashKit.mousePosition().X}      ↵
248             Y: {SplashKit.mousePosition().Y}");
249         }
```

```
1 using SplashKitSDK;
2
3 namespace NitsMercenary
4 {
5     public abstract class Room : Obj
6     {
7         private string _RoomName;
8         public Room(string[]ids, string name) :base(ids, name)
9         {
10             _RoomName = name;
11         }
12         public abstract void Draw();
13
14         public abstract void PlayerStartingPos(Player player, int x, int y);
15
16         public string RoomName { get { return _RoomName; } }
17     }
18 }
19
```

```
1  using SplashKitSDK;
2  using System;
3  using System.Collections.Generic;
4  using System.Linq;
5  using System.Text;
6  using System.Threading.Tasks;
7
8  namespace NitsMercenary
9  {
10     public class Winner : Room
11     {
12         private Bitmap WinnerRoom;
13         private int x, y;
14         public Winner(string[] ids, string name) : base(ids, name)
15         {
16             WinnerRoom = SplashKit.LoadBitmap("Winner", "images/
17                 winningscreen.jpg");
18         }
19         public override void Draw()
20         {
21             WinnerRoom.Draw(0, 0);
22         }
23
24         public override void PlayerStartingPos(Player player, int x, int y)
25         {
26             player.X = x;
27             player.Y = y;
28         }
29         public int X { get { return x; } set { x = value; } }
30         public int Y { get { return y; } set { y = value; } }
31     }
32 }
33 }
```

```
1  using SplashKitSDK;
2  using System.Numerics;
3
4  namespace NitsMercenary
5  {
6      public class WitchPlayerAnimation : Player
7      {
8          public PlayerInterface Interface;
9          public Bitmap witch;
10         public Bitmap witchATTACK;
11         public Bitmap witchwalk;
12         public Animation WitchIdleAni;
13         public Animation WitchAttackAni;
14         public Animation WitchWalkAni;
15         DrawingOptions WitchIdleOpt;
16         DrawingOptions WitchAttackOpt;
17         DrawingOptions WitchWalkOpt;
18         public bool idle;
19         public int i;
20         private int x, y;
21         public WitchPlayerAnimation(string name, string desc, int X, int Y) : base(name, desc, X, Y)
22     {
23         witch = SplashKit.LoadBitmap("witch", "images/
24             B_witch_idle.png");
24         witchATTACK = SplashKit.LoadBitmap("witchatk", "images/
25             B_witch_attack.png");
25         witchwalk = SplashKit.LoadBitmap("witchwalk", "images/
26             witch_walk.png");
26
27         witch.SetCellDetails(64, 96, 1, 6, 6);
28         witchATTACK.SetCellDetails(208, 92, 1, 9, 9);
29         witchwalk.SetCellDetails(64, 96, 2, 8, 16);
30
31         AnimationScript WitchIdleScript =
32             SplashKit.LoadAnimationScript("witchidle", "witchidle.txt");
32         AnimationScript WitchAttackScript =
33             SplashKit.LoadAnimationScript("witchattack",
34                 "witchattack.txt");
33         AnimationScript WitchWalkScript =
34             SplashKit.LoadAnimationScript("witchwalk", "witchwalk.txt");
35
35         WitchIdleAni = WitchIdleScript.CreateAnimation("idle");
36         WitchAttackAni = WitchAttackScript.CreateAnimation("noanim");
37         WitchWalkAni = WitchWalkScript.CreateAnimation("noanima");
38
39         i = 0;
40         idle = true;
41     }
```

```
42             x = X;
43             y = Y;
44         }
45         public override void Update()
46     {
47
48         if (!idle)
49     {
50             i += 1;
51         }
52
53         if ((!idle) && (i % 80 == 0))
54     {
55             idle = true;
56             WitchIdleAni.Assign("idle");
57             Console.WriteLine("idle");
58             WitchAttackAni.Assign("noanim");
59         }
60         if (SplashKit.MouseClicked(MouseButton.LeftButton))
61     {
62             Console.WriteLine("atk");
63             WitchIdleAni.Assign("noani");
64             WitchAttackAni.Assign("attack");
65             idle = false;
66         }
67         if ((SplashKit.KeyTyped(KeyCode.RightKey)) ||
68             (SplashKit.KeyTyped(KeyCode.DKey)))
69     {
70
71             Console.WriteLine("walkright");
72             WitchIdleAni.Assign("noani");
73             WitchAttackAni.Assign("noanim");
74             WitchWalkAni.Assign("walkright");
75
76         if ((SplashKit.KeyReleased(KeyCode.RightKey)) ||
77             (SplashKit.KeyReleased(KeyCode.DKey)))
78     {
79             WitchIdleAni.Assign("idle");
80             WitchWalkAni.Assign("noanima");
81
82         if ((SplashKit.KeyTyped(KeyCode.LeftKey)) ||
83             (SplashKit.KeyTyped(KeyCode.AKey)))
84     {
85
86             Console.WriteLine("walkleft");
87             WitchIdleAni.Assign("noani");
88             WitchAttackAni.Assign("noanim");
89             WitchWalkAni.Assign("walkleft");
90         }
91     }
92 }
```

```
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88         if ((SplashKit.KeyReleased(KeyCode.LeftKey)) ||
89             (SplashKit.KeyReleased(KeyCode.AKey)))
90         {
91             WitchIdleAni.Assign("idle");
92             WitchWalkAni.Assign("noanima");
93         }
94         PlayerMovement();
95         WitchIdleAni.Update();
96         WitchAttackAni.Update();
97         WitchWalkAni.Update();
98     }
99
100    public void PlayerMovement()
101    {
102        if ((SplashKit.KeyDown(KeyCode.RightKey)) ||
103            (SplashKit.KeyDown(KeyCode.DKey)))
104        {
105            if (X <= 550)
106            {
107                X += 3;
108            }
109            else { X = 555; }
110        }
111        if ((SplashKit.KeyDown(KeyCode.LeftKey)) || (SplashKit.KeyDown(
112            (KeyCode.AKey)))
113        {
114            if (X >= 5)
115            {
116                X -= 3;
117            }
118            else { X = 0; }
119        }
120    }
121
122    public override void Draw()
123    {
124        WitchIdleOpt = SplashKit.OptionWithAnimation(WitchIdleAni);
125        WitchAttackOpt = SplashKit.OptionWithAnimation
126            (WitchAttackAni);
127        WitchWalkOpt = SplashKit.OptionWithAnimation(WitchWalkAni);
128
129        SplashKit.DrawBitmap(witch, X - 20, Y - 40, WitchIdleOpt);
130        SplashKit.DrawBitmap(witchATTACK, X - 10, Y - 35,
131            WitchAttackOpt);
132        SplashKit.DrawBitmap(witchwalk, X - 10, Y - 35, WitchWalkOpt);
133    }
134
135    public override int X { get { return x; } set { x = value; } }
136    public override int Y { get { return y; } set { y = value; } }
```

```
1  using SplashKitSDK;
2
3  namespace NitsMercenary
4  {
5      public class ATC : Room
6      {
7          private int x, y;
8          private Bitmap _ATC_Building_In;
9          public ATC(string[]ids ,string name) : base(ids,name)
10         {
11             _ATC_Building_In = SplashKit.LoadBitmap("ATC_In", "images/"     ↵
12               "ATC_Building_In.png");
13         }
14
15         public override void Draw()
16         {
17             _ATC_Building_In.Draw(0, 0);
18         }
19
20         public override void PlayerStartingPos(Player player, int x, int y)
21         {
22             player.X = x;
23             player.Y = y;
24         }
25         public int X { get { return x; } set { x = value; } }
26         public int Y { get { return y; } set { y = value; } }
27     }
28 }
```

```
1 using SplashKitSDK;
2
3 namespace NitsMercenary
4 {
5     public class BA : Room
6     {
7         private Bitmap _BA_Building_In;
8         public BA(string[] ids, string name):base(ids, name)
9         {
10             _BA_Building_In = SplashKit.LoadBitmap("BA_In", "images/
11                                         BA_Building_inside.png");
12         }
13
14         public override void Draw()
15         {
16             _BA_Building_In.Draw(0, 0);
17         }
18
19         public override void PlayerStartingPos(Player player, int x, int y)
20         {
21             player.X = x;
22             player.Y = y;
23         }
24
25     }
26 }
27
```

```
1  using SplashKitSDK;
2
3  namespace NitsMercenary
4  {
5      public class CartoonPlayerAnimation : Player
6      {
7          public Bitmap cartoon;
8          public Animation test;
9          public DrawingOptions opt;
10         private int x;
11         private int y;
12
13         public CartoonPlayerAnimation(string name, string desc, int X, int Y) : base(name, desc, X, Y)
14     {
15         cartoon = SplashKit.LoadBitmap("cartoon", "images/character.png");
16         cartoon.SetCellDetails(48, 48, 4, 4, 16);
17         AnimationScript Walk = SplashKit.LoadAnimationScript("", "test.txt");
18         test = Walk.CreateAnimation("walkback");
19         x = X;
20         y = Y;
21     }
22     public override void Update()
23     {
24
25         if (SplashKit.KeyDown(KeyCode.PKey))
26             { test.Assign("Dance"); }
27         if ((SplashKit.KeyTyped(KeyCode.UpKey)) || (SplashKit.KeyTyped(KeyCode.WKey)))
28         {
29             test.Assign("GoWalkBack");
30             Console.WriteLine(test);
31         }
32         if ((SplashKit.KeyReleased(KeyCode.UpKey)) || (SplashKit.KeyReleased(KeyCode.WKey)))
33         {
34             test.Assign("WalkBack");
35         }
36         if ((SplashKit.KeyTyped(KeyCode.DownKey)) || (SplashKit.KeyTyped(KeyCode.SKey)))
37         {
38             test.Assign("GoWalkFront");
39         }
40         if ((SplashKit.KeyReleased(KeyCode.DownKey)) || (SplashKit.KeyReleased(KeyCode.SKey)))
41         {
42             test.Assign("WalkFront");
```

```
43         }
44         if ((SplashKit.KeyTyped(KeyCode.RightKey)) ||
45             (SplashKit.KeyTyped(KeyCode.DKey)))
46         {
47             { test.Assign("GoWalkRight"); }
48         }
49         if ((SplashKit.KeyReleased(KeyCode.RightKey)) ||
50             (SplashKit.KeyReleased(KeyCode.DKey)))
51         {
52             { test.Assign("WalkRight"); }
53         }
54         if ((SplashKit.KeyTyped(KeyCode.LeftKey)) ||
55             (SplashKit.KeyTyped(KeyCode.AKey)))
56         {
57             { test.Assign("GoWalkLeft"); }
58         }
59         if ((SplashKit.KeyReleased(KeyCode.LeftKey)) ||
60             (SplashKit.KeyReleased(KeyCode.AKey)))
61         {
62             { test.Assign("WalkLeft"); }
63         }
64     public void PlayerMovement()
65     {
66         if ((SplashKit.KeyDown(KeyCode.UpKey)) || (SplashKit.KeyDown
67             (KeyCode.WKey)))
68         {
69             if (Y >= 3)
70                 { Y -= 3; }
71             else { Y = 0; }
72         }
73         if ((SplashKit.KeyDown(KeyCode.DownKey)) || (SplashKit.KeyDown
74             (KeyCode.SKey)))
75         {
76             if (Y <= 550)
77                 { Y += 3; }
78             else { Y = 555; }
79         }
80         if ((SplashKit.KeyDown(KeyCode.RightKey)) ||
81             (SplashKit.KeyDown(KeyCode.DKey)))
82         {
83             if (X <= 550)
84                 { X += 3; }
```

```
        (KeyCode.AKey)))  
85            {  
86                if (X >= 5)  
87                    { X -= 3; }  
88                else { X = 0; }  
89            }  
90        }  
91  
92        public override void Draw()  
93        {  
94            opt = SplashKit.OptionWithAnimation(test);  
95            SplashKit.DrawBitmap(cartoon, X, Y, opt);  
96        }  
97  
98        public override int X { get { return x; } set { x = value; } }  
99        public override int Y { get { return y; } set { y = value; } }  
100    }  
101 }  
102
```

```
1  using SplashKitSDK;
2  using System;
3  using System.Collections.Generic;
4  using System.Linq;
5  using System.Text;
6  using System.Threading.Tasks;
7
8  namespace NitsMercenary
9  {
10     public class Dungeon : Room
11     {
12         private Bitmap DungeonRoom;
13         private int x, y;
14         public Dungeon(string[] ids, string name) : base(ids, name)
15         {
16             DungeonRoom = SplashKit.LoadBitmap("DungeonIn", "images/"      ↗
17                                         "DungeonIn.jpg");
18         }
19         public override void Draw()
20         {
21             DungeonRoom.Draw(0, 0);
22         }
23
24         public override void PlayerStartingPos(Player player, int x, int y)
25         {
26             player.X = x;
27             player.Y = y;
28         }
29         public int X { get { return x; } set { x = value; } }
30         public int Y { get { return y; } set { y = value; } }
31     }
32 }
33 }
```



```
46         EnemyAttack.SetCellDetails(80, 64, 10, 1, 10);
47         EnemyWalk.SetCellDetails(80, 64, 8, 2, 16);
48         EnemyDie.SetCellDetails(80, 64, 15, 1, 15);
49
50     AnimationScript EnemyIdleScript =
51         SplashKit.LoadAnimationScript("enemyidle", "enemyidle.txt");
52     AnimationScript EnemyAttackScript =
53         SplashKit.LoadAnimationScript("enemyattack",
54             "enemyattack.txt");
55     AnimationScript EnemyWalkScript =
56         SplashKit.LoadAnimationScript("enemywalk", "enemywalk.txt");
57     AnimationScript EnemyDieScript = SplashKit.LoadAnimationScript
58         ("enemydie", "enemydie.txt");
59
60     EnemyIdleAni = EnemyIdleScript.CreateAnimation("noanimation");
61     EnemyAttackAni = EnemyAttackScript.CreateAnimation
62         ("noanimation1");
63     EnemyWalkAni = EnemyWalkScript.CreateAnimation("walkleft1");
64     EnemyDieAni = EnemyDieScript.CreateAnimation("noanimation3");
65
66     i = 0;
67     respawn = false;
68     x = X;
69     y = Y;
70 }
71 public override void Update()
72 {
73     if (X < 295 && !Dead)
74     { enemyDirection = EnemyDirection.Right; X = 300;
75         EnemyWalkAni.Assign("walkright1"); }
76     else if (X > 550 && !Dead)
77     { enemyDirection = EnemyDirection.Left; X = 545;
78         EnemyWalkAni.Assign("walkleft1"); }
79     else if (Dead)
80     { enemyDirection = EnemyDirection.Dead; }
81
82     if (respawn)
83     {
84         i += 1;
85     }
86
87     switch (enemyDirection)
88     {
89         case EnemyDirection.Left:
90             X -= 1;
91             break;
92         case EnemyDirection.Right:
93             X += 1;
94             break;
```

```
87             case EnemyDirection.Dead:
88
89                 if (i % 1000 == 0)
90                 {
91                     EnemyDieAni.Assign("noanimation3");
92                     enemyDirection = EnemyDirection.Right;
93                     EnemyWalkAni.Assign("walkright1");
94                     respawn = true;
95
96                     Dead = false;
97                     break;
98                 }
99                 EnemyWalkAni.Update();
100                EnemyIdleAni.Update();
101                EnemyAttackAni.Update();
102                EnemyDieAni.Update();
103            }
104            public override void Draw()
105            {
106                EnemyIdleOpt = SplashKit.OptionWithAnimation(EnemyIdleAni);
107                EnemyAttackOpt = SplashKit.OptionWithAnimation
108                    (EnemyAttackAni);
109                EnemyWalkOpt = SplashKit.OptionWithAnimation(EnemyWalkAni);
110                EnemyDieOpt = SplashKit.OptionWithAnimation(EnemyDieAni);
111
112                SplashKit.DrawBitmap(Enemy, X - 20, Y - 40, EnemyIdleOpt);
113                SplashKit.DrawBitmap(EnemyAttack, X - 10, Y - 35,
114                    EnemyAttackOpt);
115                SplashKit.DrawBitmap(EnemyWalk, X - 10, Y - 35, EnemyWalkOpt);
116                SplashKit.DrawBitmap(EnemyDie, X - 10, Y - 35, EnemyDieOpt);
117            }
118            public override int X { get { return x; } set { x = value; } }
119            public override int Y { get { return y; } set { y = value; } }
120        }
121    }
122 }
```

```
1
2
3 namespace NitsMercenary
4 {
5     public class IDgame
6     {
7         public List<string> _identifiers = new();
8
9         public IDgame(string[] idents)
10        {
11            _identifiers.AddRange(idents);
12        }
13
14        public bool AreYou(string id)
15        {
16            foreach (string ident in _identifiers)
17            {
18                if (ident.ToLower() == id.ToLower()) { return true; }
19            }
20            return false;
21        }
22
23        public void AddIdentifier(string id)
24        {
25            _identifiers.Add(id.ToLower());
26        }
27
28    }
29 }
30 }
```

```
1  using SplashKitSDK;
2
3  namespace NitsMercenary
4  {
5      public class JohnStreet:Room
6      {
7          private string name;
8          private Bitmap _bitmap;
9          private Bitmap _BA_Building;
10         private Bitmap _Library;
11         private Bitmap _ATC_Building;
12         private Bitmap DungeonRoom;
13         public JohnStreet(string[]ids, string Name) : base(ids, Name)
14         {
15             name = Name;
16             _bitmap = SplashKit.LoadBitmap("grass", "images/
17                 JohnStreet.png");
18             _Library = SplashKit.LoadBitmap("Library", "images/
19                 Library.png");
20             _BA_Building = SplashKit.LoadBitmap("BA", "images/
21                 BA_Building.png");
22             _ATC_Building = SplashKit.LoadBitmap("ATC", "images/
23                 ATC_Building.png");
24             DungeonRoom = SplashKit.LoadBitmap("Dungeon", "images/
25                 building.png");
26         }
27
28         public override void Draw()
29         {
30             _bitmap.Draw(0, 0);
31             _Library.Draw(260, -10);
32             _BA_Building.Draw(-20, 150);
33             _ATC_Building.Draw(450, 100);
34             DungeonRoom.Draw(355, 330);
35         }
36
37         public override void PlayerStartingPos(Player player, int x, int y)
38         {
39             player.X = x;
40             player.Y = y;
41         }
42     }
```

```
1  using SplashKitSDK;
2
3  namespace NitsMercenary
4  {
5      public class Library : Room
6      {
7          private Bitmap _Library_Building_In;
8          private int x, y;
9          public Library(string[] ids, string name):base(ids, name)
10         {
11             _Library_Building_In = SplashKit.LoadBitmap("Library_In",
12                 "images/Library.jpg");
13         }
14
15         public override void Draw()
16         {
17             _Library_Building_In.Draw(0,0);
18         }
19
20         public override void PlayerStartingPos(Player player,int x,int y)
21         {
22             player.X = x;
23             player.Y = y;
24         }
25         public int X { get { return x; } set { x = value; } }
26         public int Y { get { return y; } set { y = value; } }
27     }
28 }
```

```
1
2
3 namespace NitsMercenary
4 {
5     public abstract class Obj : IDgame
6     {
7         private string _description;
8         private string _name;
9         public Obj(string[] ids, string name) : base(ids)
10        {
11            _name = name;
12        }
13
14        public string Name { get { return _name; } }
15
16        public virtual string FullDescription { get { return
17            _description; } }
18    }
19 }
```

```
1  using SplashKitSDK;
2  using System.Transactions;
3
4  namespace NitsMercenary
5  {
6      public class Player : Obj, PlayerInterface
7      {
8          private int x;
9          private int y;
10
11         private bool dead;
12
13         private Room room;
14         public Player(string name, string desc, int X, int Y) : base(new
15             string[] { "player" }, name)
16         {
17             x = X;
18             y = Y;
19             dead = false;
20             room = new JohnStreet(new string[] { "JohnStreet" },
21                 "JohnStreet");
22         }
23
24         public virtual void Draw()
25         {
26         }
27
28         public virtual void Update()
29         {
30
31             if ((x1 <= X) && (x2 >= X))
32             {
33                 if ((y1 >= Y) && (y2 <= Y)) { return true; }
34             }
35             return false;
36         }
37         public override string FullDescription { get { return $"{Name},";
38             $"{base.FullDescription}\nYou are carrying:\n"; } }
39
40         public virtual int X { get { return x; } set { x = value; } }
41         public virtual int Y { get { return y; } set { y = value; } }
42
43         public Room Room
44         {
45             get { return room; }
46             set { room = value; }
47         }
```

```
47         public bool Dead { get { return dead; } set { dead = value; } }
48     }
49 }
50 }
51 }
```

```
1
2 namespace NitsMercenary
3 {
4     public interface PlayerInterface
5     {
6         public bool PlayerIsAt(int x1, int y1, int x2, int y2);
7     }
8 }
9
```

GOLD 100G

YOU WIN! 



Inside ATC Building

GOLD 0G



BA Building

GOLD 20G



GOLD OG



