

```
1 package program;
2
3 import java.util.ArrayList;
4
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11
12
13
14
15 public class Hero implements IAnimatable, IEntity{
16     private Animation idleAnimation;
17     private Animation runLeftAnimation;
18     private Animation runRightAnimation;
19     private Point position;
20     private DungeonWorld level;
21
22
23     public Hero() {
24         ArrayList<Texture> idle = new ArrayList<>();
25         idle.add(new Texture("C:\\Users\\oooo\\eclipse-workspace\\PM-Dungeon\\assets\\textures\\
\\characters\\hero_idle_1.png"));
26         idle.add(new Texture("C:\\Users\\oooo\\eclipse-workspace\\PM-Dungeon\\assets\\textures\\
\\characters\\hero.png"));
27         idle.add(new Texture("C:\\Users\\oooo\\eclipse-workspace\\PM-Dungeon\\assets\\textures\\
\\characters\\hero_idle_2.png"));
28         idle.add(new Texture("C:\\Users\\oooo\\eclipse-workspace\\PM-Dungeon\\assets\\textures\\
\\characters\\hero.png"));
29         idle.add(new Texture("C:\\Users\\oooo\\eclipse-workspace\\PM-Dungeon\\assets\\textures\\
\\characters\\hero_idle_1.png"));
30         idleAnimation = new Animation(idle,8);
31
32         ArrayList<Texture> runLeft = new ArrayList<>();
33         runLeft.add(new Texture("C:\\Users\\oooo\\eclipse-workspace\\PM-Dungeon\\assets\\
\\textures\\characters\\hero_run_left_1.png"));
34         runLeft.add(new Texture("C:\\Users\\oooo\\eclipse-workspace\\PM-Dungeon\\assets\\
\\textures\\characters\\hero_run_left_2.png"));
35         runLeftAnimation = new Animation(runLeft, 8);
36
37         ArrayList<Texture> runRight = new ArrayList<>();
38         runRight.add(new Texture("C:\\Users\\oooo\\eclipse-workspace\\PM-Dungeon\\assets\\
\\textures\\characters\\hero_run_right_1.png"));
39         runRight.add(new Texture("C:\\Users\\oooo\\eclipse-workspace\\PM-Dungeon\\assets\\
\\textures\\characters\\hero_run_right_2.png"));
40         runRightAnimation = new Animation(runRight, 8);
41     }
42
43     public void setLevel(DungeonWorld level) {
44         this.level = level;
45         findRandomPostion();
46     }
47
48     public void findRandomPostion(){
49         this.position = new Point(level.getRandomPointInDungeon());
50     }
51
52     @Override
53     public Point getPosition() {
54         return this.position;
55     }
56
57     @Override
58     public Animation getActiveAnimation() {
```

```
59     if(Gdx.input.isKeyPressed(Input.Keys.D) || Gdx.input.isKeyPressed(Input.Keys.W)){
60         return runRightAnimation;
61     }else if(Gdx.input.isKeyPressed(Input.Keys.A) || Gdx.input.isKeyPressed(Input.Keys.S)){
62         return runLeftAnimation;
63     }else {
64         return idleAnimation;
65     }
66 }
67
68 @Override
69 public boolean deleteable() {
70     // TODO Auto-generated method stub
71     return false;
72 }
73
74 @Override
75 public void update() {
76     Point newPosition = new Point(this.position);
77     float movementSpeed = 0.1f;
78     if(Gdx.input.isKeyPressed(Input.Keys.W))
79         newPosition.y += movementSpeed;
80     if(Gdx.input.isKeyPressed(Input.Keys.S))
81         newPosition.y -= movementSpeed;
82     if(Gdx.input.isKeyPressed(Input.Keys.D))
83         newPosition.x += movementSpeed;
84     if(Gdx.input.isKeyPressed(Input.Keys.A))
85         newPosition.x -= movementSpeed;
86     if(level.isTileAccessible(newPosition))
87         this.position = newPosition;
88     this.draw();
89 }
90
91 }
92
```