

Class compiled - no syntax errors

```

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public void act() //Keeps checking the state of the game
{
    begin();

    if(gameOver)endGame();

    if (!gameWin)
    {
        int amount = getObjects(Food.class).size(); //how much food

        if (amount == 0)
        {
            gameWin = true;
            stopChar();

            Interface gameOverText = new Interface("You win!");
            addObject(gameOverText, 47, 72);
        }
    }
}

public void begin()
{

```

```

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public void begin()
{
    removeObject(start);
}

//stops pacman and ghosts through a list
public void stopChar()
{
    pacman.active = false;
    List ghosts = getObjects(Ghost.class);

    for(int i = 0;i<ghosts.size();i++)
    {
        Ghost ghost = (Ghost) ghosts.get(i);
        ghost.active = false;
    }
}

public Interface getInterface()
{
    return scoreNow;
}

```



```

public void genLevel(int array[]) //generates the level
{
    int i = 0;

    //Starting from 2x12 to 95x120
    for(int y = 12; y<120; y+=5)
    {
        for(int x = 2; x<95; x+=5)
        {
            int check = array[i];

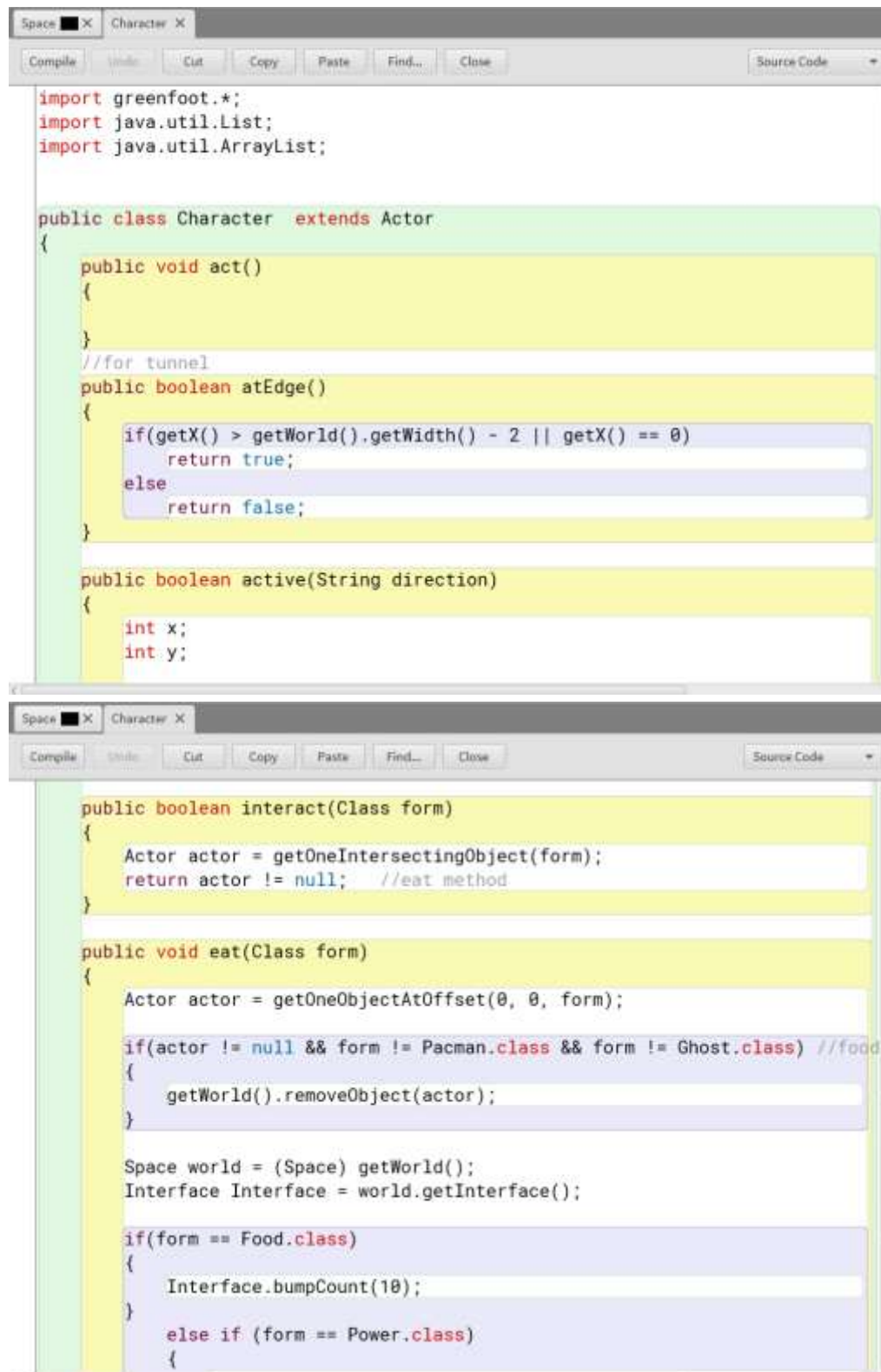
            if(check == 0)
            {
                addObject(new Wall(), x, y);
            }
            else if (check == 1)
            {
                addObject(new Food(), x, y);
            }
            else if (check == 2)
            {
                addObject(new Power(), x, y);
            }
        }
        i++;
    }
}

public void endGame() //Pacman get killed but the ghosts keep roaming
{
    if(frames == 0)
    {
        gameOver = true;
        Interface lostText = new Interface("You lose!");
        addObject(lostText, 47, 72);
        pacman.active = false;
        pacman.setImage("PacmanDeath.png");
    }
    else if(frames == 3)
    {
        pacman.setImage("PacmanDeath1.png");
    }
    else if(frames == 6)
    {
        pacman.setImage("PacmanDeath2.png");
    }
    else if(frames == 9)
    {
        pacman.setImage("PacmanDeath3.png");
    }
    else if(frames == 12)
    {
        pacman.setImage("PacmanDeath4.png");
    }
}

```

Actor Class

a. Character



```

import greenfoot.*;
import java.util.List;
import java.util.ArrayList;

public class Character extends Actor
{
    public void act()
    {
        //for tunnel
    }

    public boolean atEdge()
    {
        if(getX() > getWorld().getWidth() - 2 || getX() == 0)
            return true;
        else
            return false;
    }

    public boolean active(String direction)
    {
        int x;
        int y;
    }

    public boolean interact(Class form)
    {
        Actor actor = getOneIntersectingObject(form);
        return actor != null; //eat method
    }

    public void eat(Class form)
    {
        Actor actor = getObjectAtOffset(0, 0, form);

        if(actor != null && form != Pacman.class && form != Ghost.class) //food
        {
            getWorld().removeObject(actor);
        }

        Space world = (Space) getWorld();
        Interface Interface = world.getInterface();

        if(form == Food.class)
        {
            Interface.bumpCount(10);
        }
        else if (form == Power.class)
        {
    }
    }
}

```

b. Food

The screenshot shows a code editor with tabs for Space, Character, Food, and Interface. The Food class is selected. The code defines a public class Food that extends Actor. It contains a public void act() method with an empty body.

```
public class Food extends Actor
{
    public void act()
    {
    }
}
```

c. Interface

The screenshot shows a code editor with tabs for Space, Character, Food, and Interface. The Interface class is selected. The code defines a public class Interface that extends Actor. It contains a private int totalCount variable initialized to 0. It has two public Interface methods: one with a String text parameter and one without. Both methods call setImage with a new GreenfootImage. It also has a public void bumpCount(int amount) method that increments totalCount and calls setImage with a string representation of the count.

```
public class Interface extends Actor
{
    private int totalCount = 0;

    public Interface(String text)
    {
        setImage(new GreenfootImage(text, 25, Color.WHITE, Color.BLACK));
    }

    public Interface()
    {
        setImage(new GreenfootImage("0", 25, Color.WHITE, Color.BLACK));
    }

    public void bumpCount(int amount)
    {
        totalCount += amount;
        setImage(new GreenfootImage("" + totalCount, 20, Color.WHITE, Color.BLA
    }
}
```

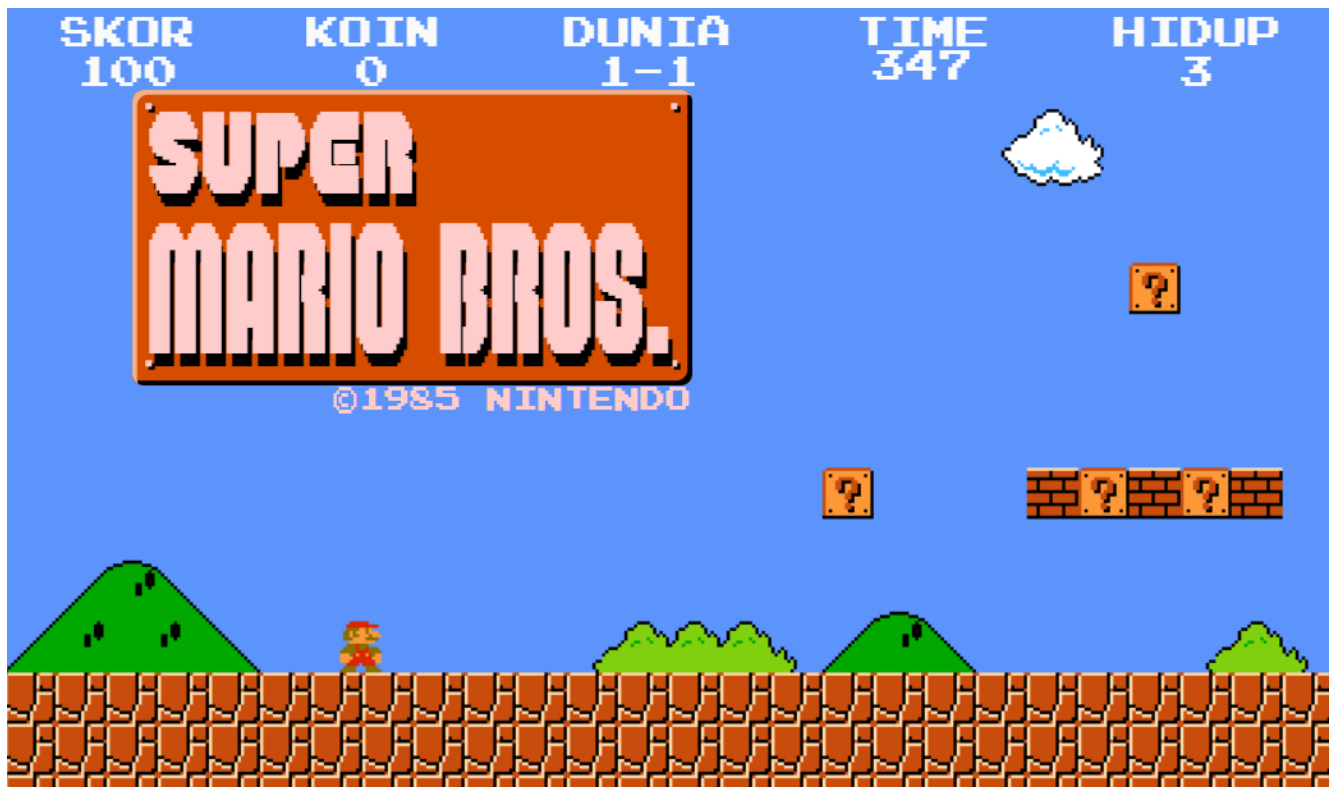
c. Power

The screenshot shows a code editor with tabs for Space, Character, Food, Interface, Power, and Wall. The Power class is selected. The code defines a public class Power that extends Actor. It contains a public void act() method with an empty body.

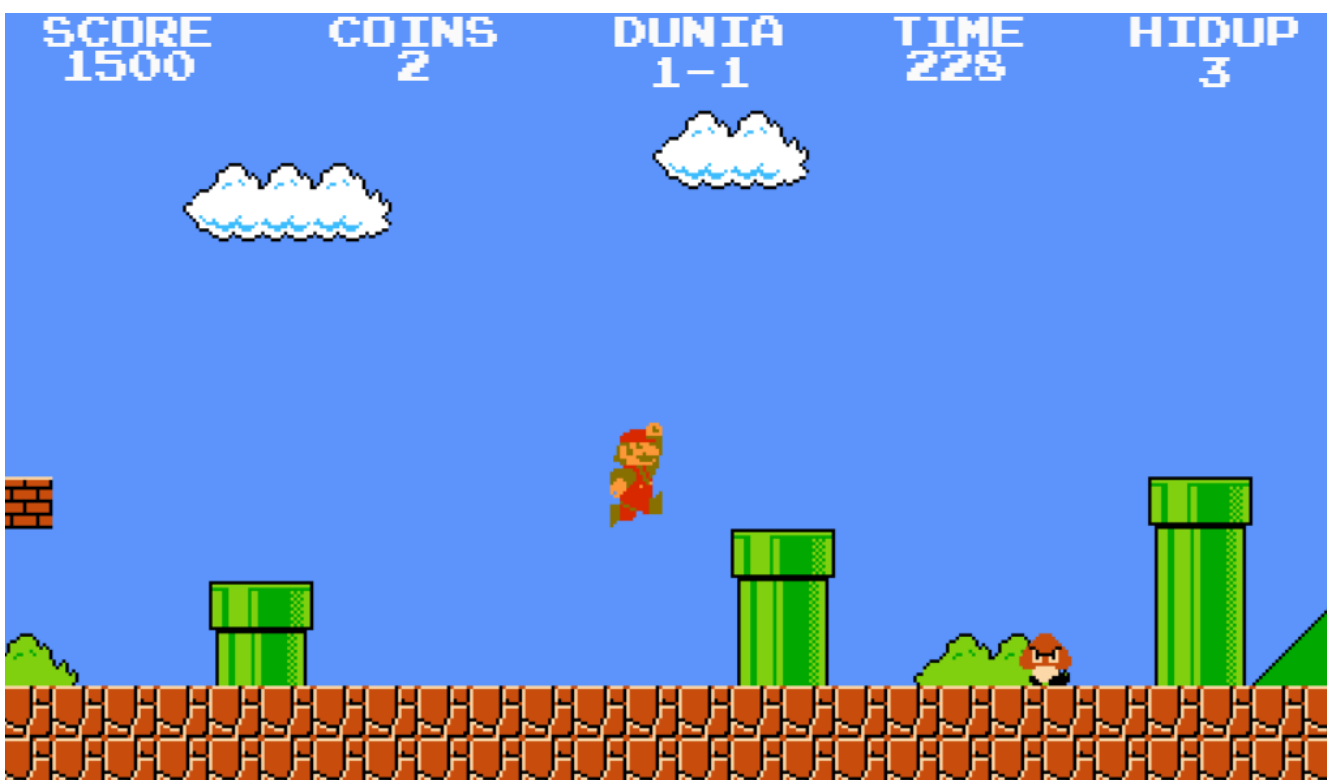
```
public class Power extends Actor
{
    public void act()
    {
    }
}
```


TAMPILAN

a. Tampilan awal



b. Ketika dijalankan



c. Ketika game over

