

1.

Name:
Snake_mode

members:
int centerx
int centery,
int radius,
int pcenterx,
int pcentery;

method :
snake_mode(){

2.

Name:
Snakethegame2

Members:
JMenuBar menu = null;
JMenuBar info = null;
JMenu help = null;
JMenu controls = null;
JMenuItem play = null;
JMenuItem restart = null;
JMenuItem instructions = null;
JMenuItem email = null;
JMenuItem Phonenumber = null;

method:

3.

Name:
Snakethegame2()

methods:
menu = new JMenuBar();
info = new JMenuBar();
play = new JMenuItem("Play Game");
controls = new JMenu("Controls for Game");
help = new JMenu("Help"); //help on the user bar
restart = new JMenuItem("Restart Game");
instructions = new JMenuItem("Instructions");
email = new JMenuItem("Email: Mason_schaefer@yahoo.com");
Phonenumber = new JMenuItem("For Phone Number, Email Me, Thanks!");

```

restart.setMnemonic(KeyEvent.VK_R); //shift r allows users to reset game
restart.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK_R,
InputEvent.SHIFT_MASK));
restart.setMnemonic(KeyEvent.VK_I); //shift I allows user to see the instructions
instructions.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK_I,
InputEvent.SHIFT_MASK));

```

Methods:

```

play.setMnemonic(KeyEvent.VK_P); //allows user to play the game with shift
play.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK_P, InputEvent.SHIFT_MASK));

this.add(panel, BorderLayout.CENTER);
this.setLocationRelativeTo(null);
this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
play.addActionListener(new ActionListener(){public void actionPerformed(ActionEvent eee)
{play();}})
restart.addActionListener(new ActionListener(){public void actionPerformed(ActionEvent ee)
{restart();}});
instructions.addActionListener(new ActionListener(){public void actionPerformed(ActionEvent
ee){instruct();}});
this.addKeyListener(new KeyAdapter(){public void keyPressed(KeyEvent e)
{panel.keyPress(e);}});
this.setVisible(true);
this.pack();

```

4.

Name: public void play(){

members:

```

if(firstplay){
panel.t.start();
firstplay = false;

```

methods:

```

play.setEnabled(false);

```

5.

Name:

public void restart(){

members

```

int pos = 0;
panel.vector.clear();
Snake_mode[] mode = new Snake_mode[5]; for(int i =0; i < 5; i++){
mode[i] = new Snake_mode();
mode[i].centerx = 200;

```

```
mode[i].centery = 150-pos;
mode[i].pcentery = 150-pos;
mode[i].pcenterx = 200;
panel.vector.add(mode[i]); //adds body part
pos = pos+10;
```

methods:

```
panel.gameover = false;
panel.dir = 'D';
panel.repaint();
```

6.

Name:

```
public void instruct(){
```

method:

```
JOptionPane.showMessageDialog(this, "1. Shift+R - Restart \n2. J/Z - Increase Snake speed\n3. K/X - Decrease Snake speed \n4. LEFT/A - Turn left \n5. RIGHT/D - Turn right \n6. UP/W - go up \n7. DOWN/S - go down \n8. Shift+I - to view Instructions", "Instructions",1);
```

7.

Name:

```
public void paintComponent(Graphics g)
```

members:

```
super.paintComponent(g);
Graphics2D g2 = (Graphics2D)g;
score = vector.size()-5;
g2.setRenderingHint(RenderingHints.KEY_ANTIALIASING,
RenderingHints.VALUE_ANTIALIAS_ON);
int red = 30+(int)(Math.random()*220);
int green = 30+(int)(Math.random()*220);
int black = 30+(int)(Math.random()*220);
```

methods:

```
g2.setColor(Color.white);
g2.drawRect(600, 0, 199, 550);
g2.setColor(Color.red);ange a certain color
g2.setFont(new Font("Arial", 1, 50));
g2.drawString("Snake", 630, 80);
g2.setFont(new Font("Arial", 1, 20));
g2.drawString("By Mason Schaefer", 610, 160);
g2.setFont(new Font("Arial", 1, 20));
g2.drawString("Score: "+score,650, 230);
g2.setFont(new Font("Arial", 1, 20));
g2.drawString("High Score: ", 650, 200);
g2.fillRect(0, 0, dim.width-200, dim.height);
```

```

g2.setColor(Color.white);
g2.fillRect(10, 10, dim.width-220, dim.height-65);
g2.setColor(new Color(red, green, blue, black));
g2.fillOval(foodx, foody, 10, 10);
g2.setColor(Color.red);
if(gameover){
    g2.setColor(Color.green); //prints texts in green
    g2.setFont(new Font("Monotype Corsiva", 1, 120));
    g2.setColor(Color.green); //prints in green "you suck"
    g2.drawString("YOU SUCK!", 60, 260);
    g2.setColor(Color.green); //type of text
    g2.setFont(new Font("typewriter", 1, 14));
    g2.setColor(Color.green); //prints the phrase get a job
    g2.drawString("Get A Job!", 260, 300 );
    g2.setColor(Color.green); //tells who its made by
    g2.drawString(" Proudly Made By", 220, 330);
    g2.setColor(Color.green); //tells the users name
    g2.drawString("Mason Schaefer", 255, 370);

else{
    g2.fillOval(vector.get(0).centerx, vector.get(0).centery, vector.get(0).radius, vector.get(0).radius);
    for(int i=1; i < vector.size(); i++){
        g2.fillOval(vector.get(i).centerx, vector.get(i).centery, vector.get(i).radius, vector.get(i).radius);
        vector.get(i).pcenterx = vector.get(i).centerx; //piece of snake body
        vector.get(i).pcentery = vector.get(i).centery; //piece of snake body
        vector.get(i).centerx = vector.get(i-1).pcenterx; //piece of snake body
        vector.get(i).centery = vector.get(i-1).pcentery; //piece of snake body
    }
}

```

8.

Name

```
wrongWay(int x, int y){
```

```

members: if(x < 10 || x > dim.width-220 || y < 10 || y > dim.height-61)
else if(x==foodx && y==foody){
    Snake_mode modes = new Snake_mode(); //establishing a new snake mode
    modes.centerx = vector.get(vector.size()-1).pcenterx;
    modes.centery = vector.get(vector.size()-1).pcentery;
    vector.add(modes); //addes modes
    foodx = 20+(int)(Math.random()*56)*10;
    foody = 20+(int)(Math.random()*52)*10;
    for(int i=1; i < vector.size(); i++){
        if(x == vector.get(i).centerx && y == vector.get(i).centery){ gameOver = true;

```

Methods:

```
try{Thread.sleep(1000);}catch(Exception e){  
    repaint();  
    gameover = true;  
    try{Thread.sleep(1000);}catch(Exception e){  
        repaint();
```

9.

Name:

```
public void run
```

members:

```
while (true){  
    switch(dir){  
        case 'L':/ vector.get(0).centerx = (vector.get(0).centerx-inc);  
        vector.get(0).pcenterx = vector.get(0).centerx;  
        wrongWay(vector.get(0).centerx, vector.get(0).centery);  
        repaint();  
        break;  
        case 'R':    vector.get(0).centerx = (vector.get(0).centerx+inc);  
        vector.get(0).pcenterx = vector.get(0).centerx;  
        wrongWay(vector.get(0).centerx, vector.get(0).centery);  
        repaint();  
        break;  
        case 'U':    vector.get(0).pcentery = vector.get(0).centery;  
        wrongWay(vector.get(0).centerx, vector.get(0).centery);  
        repaint();  
        break;  
        case 'D':    vector.get(0).centery = (vector.get(0).centery+inc);  
        vector.get(0).pcentery = vector.get(0).centery;  
        wrongWay(vector.get(0).centerx, vector.get(0).centery);
```

methods:

```
repaint();  
    break;  
    try{  
        Thread.sleep(time)  
    catch(Exception e){}
```

10.

Name:

```
keyPress(KeyEvent e){
```

members:

```
if(e.getKeyCode() == KeyEvent.VK_DOWN || e.getKeyCode() == KeyEvent.VK_S){
    if(dir != 'U')
        dir = 'D';

    else if(e.getKeyCode() == KeyEvent.VK_UP || e.getKeyCode() == KeyEvent.VK_W){
        if(dir != 'D')    dir = 'U';
    }
    else if(e.getKeyCode() == KeyEvent.VK_LEFT || e.getKeyCode() == KeyEvent.VK_A){
        if(dir != 'R')    dir = 'L';
    }
    else if(e.getKeyCode() == KeyEvent.VK_RIGHT || e.getKeyCode() == KeyEvent.VK_D){
        if(dir != 'L')    dir = 'R';
    }
    else if(e.getKeyCode() == KeyEvent.VK_J || e.getKeyCode() == KeyEvent.VK_Z){
        time--; }
    else if(e.getKeyCode() == KeyEvent.VK_K || e.getKeyCode() == KeyEvent.VK_X){
        time++;
    }
    else if(e.getKeyCode() == KeyEvent.VK_ESCAPE)
    else if(e.getKeyCode() == KeyEvent.VK_SPACE)
if(gamepause){
```

methods:

```
t.suspend();
gamepause = false
    else{
        t.resume();
        gamepause = true
System.exit(0);
```