Sandbox | CMU CS Academy

```
1 #Background
    app.background=gradient('deepSkyBlue', 'skyBlue', start='top-left')
    #theGround
 4 Ground = Line(0, 388, 400, 388, fill='limeGreen', lineWidth=60)
 5 #Coin
 6
   coin= Circle(200,308,10, fill='gold')
    Label('C', 200, 308, fill='black', size= 15)
 8
    #Ball
 9 ball= Circle(40, 358, 20, fill='firebrick')
10 #BallFace
11 Eye = Circle(48, 354, 6, fill='White', border='black', borderWidth=1)
12 Pupil = Circle(48, 354, 2, fill='black', border='black', borderWidth=1)
13 Eye2 = Circle(32,354, 6, fill='white', border='black', borderWidth=1)
14 Pupil2 = Circle(32,354, 2, fill='black', border='black', borderWidth=1)
   #Clouds
15
16 Circle(68, 104, 30, fill='White')
17 Circle(96, 71, 30, fill='White')
18 Circle(119, 111, 30, fill='White')
19 Circle(145, 70, 30, fill='White')
20 Circle(166, 110, 30, fill='White')
21 Circle(266, 71, 30, fill='White')
22 Circle(305, 41, 30, fill='White')
23 Circle(351, 63, 30, fill='White')
24 Circle(309, 87, 30, fill='White')
25 #Label
26 s2 = Label('Click to begin', 200,200, visible=True)
27 coinlabel= Label('You Got It!', 200, 200, visible=False)
28 s = Label('Controls: Up, Right, and Left', 200,215, visible=False)
29 #Tree
30
31
32
33 def onMousePress(mouseX,mouseY):
34
         s.visible=True
35
         s2.visible=False
36
37 def onKeyPress(key):
         if key == 'right':
38
39
             s.visible=False
40
             ball.centerX +=10
41
             Eye.centerX +=10
42
             Pupil.centerX +=10
43
             Eye2.centerX +=10
44
             Pupil2.centerX +=10
45
         elif key=='left':
46
             ball.centerX-=10
47
             Eye.centerX-=10
48
             Pupil.centerX -=10
49
             Eye2.centerX-=10
50
             Pupil2.centerX -=10
51
         elif key=='up':
52
             s.visible=False
53
             ball.centerY-=50
54
             Eye.centerY-=50
55
             Pupil.centerY -=50
56
             Eye2.centerY-=50
57
             Pupil2.centerY -=50
58
         else:
59
             s.visible=True
60
61
         if s2.visible==True:
62
             coinlabel.visible=False
         elif ball.hitsShape(coin)==True:
63
64
             coinlabel.visible=True
65
             app.stop()
66
67
68
69 def onKeyRelease(key):
70
         if key == 'right':
71
             ball.centerX+=10
72
             Eye.centerX+=10
73
             Pupil.centerX +=10
```

```
74
            Eye2.centerX+=10
75
            Pupil2.centerX +=10
76
        elif key=='left':
            ball.centerX -=10
Eye.centerX -=10
77
78
79
            Pupil.centerX -=10
80
            Eye2.centerX -=10
81
            Pupil2.centerX -=10
82
        elif key=='up':
83
            ball.centerY+=50
84
            Eye.centerY+=50
            Pupil.centerY +=50
85
86
            Eye2.centerY+=50
            Pupil2.centerY +=50
87
88
        else:
89
            s.visible=True
```