```
In [ ]:
         #imports
         import turtle
         import time
         import random
         delay = 0.1
         #scores
         score = 0
         high\_score = 0
         #set up screen
         wn = turtle.Screen()
         wn.title("Snake Game")
         wn.bgcolor('black')
         wn.setup(width=1000, height=1000)
         wn.tracer(0)
         #snake head
         head = turtle.Turtle()
         head.speed(0)
         head.shape("circle")
         head.color("white")
         head.penup()
         head.goto(0,0)
         head.direction = "stop"
         #snake food
         food= turtle.Turtle()
         food.speed(0)
         food.shape("circle")
         food.color("yellow")
         food.penup()
         food.goto(0,100)
         segments = []
         #scoreboards
         sc = turtle.Turtle()
         sc.speed(0)
         sc.shape("circle")
         sc.color("white")
         sc.penup()
         sc.hideturtle()
         sc.goto(0,260)
         sc.write("Score: 0 High score: 0", align = "center", font=("ds-digital", 24, "no
         #Functions
         def go_up():
             if head.direction != "down":
                 head.direction = "up"
         def go_down():
             if head.direction != "up":
                 head.direction = "down"
         def go_left():
             if head.direction != "right":
                 head.direction = "left"
         def go_right():
             if head.direction != "left":
                 head.direction = "right"
         def move():
             if head.direction == "up":
                 y = head.ycor()
                 head.sety(y+20)
             if head.direction == "down":
                 y = head.ycor()
                 head.sety(y-20)
             if head.direction == "left":
                 x = head.xcor()
                 head.setx(x-20)
             if head.direction == "right":
                 x = head.xcor()
                 head.setx(x+20)
         #keyboard bindings
         wn.listen()
         wn.onkey(go_up, "w")
         wn.onkey(go_down, "s")
         wn.onkey(go_left, "a")
wn.onkey(go_right, "d")
         #MainLoop
         while True:
             wn.update()
             #check collision with border area
             if head.xcor()>290 or head.xcor()<-290 or head.ycor()>290 or head.ycor()<-290
                 time.sleep(1)
                 head.goto(0,0)
                 head.direction = "stop"
                 #hide the segments of body
                 for segment in segments:
                      segment.goto(1000,1000) #out of range
                 #clear the segments
                 segments.clear()
                 #reset score
                 score = 0
                 #reset delay
                 delay = 0.1
                 sc.clear()
                 sc.write("Score: {} High score: {}".format(score, high_score), align="c
             #check collision with food
             if head.distance(food) <20:</pre>
                 # move the food to random place
                 x = random.randint(-290, 290)
                 y = random.randint(-290, 290)
                 food.goto(x,y)
                 #add a new segment to the head
                 new_segment = turtle.Turtle()
                 new_segment.speed(0)
                 new_segment.shape("circle")
                 new_segment.color("white")
                 new_segment.penup()
                 segments.append(new_segment)
                 #shorten the delay
                 delay = 0.001
                 #increase the score
                 score += 10
                 if score > high_score:
                     high_score = score
                 sc.clear()
                 sc.write("Score: {} High score: {}".format(score, high_score), align="cer
             #move the segments in reverse order
             for index in range(len(segments)-1,0,-1):
                 x = segments[index-1].xcor()
                 y = segments[index-1].ycor()
                 segments[index].goto(x,y)
             #move segment 0 to head
             if len(segments)>0:
                 x = head.xcor()
                 y = head.ycor()
                 segments[0].goto(x,y)
             move()
             #check for collision with body
              for segment in segments:
                 if segment.distance(head)<20:</pre>
                      time.sleep(1)
                     head.goto(0,0)
                      head.direction = "stop"
                      #hide segments
                      for segment in segments:
                          segment.goto(1000,1000)
                      segments.clear()
                      score = 0
                      delay = 0.1
                      #update the score
                      sc.clear()
                      sc.write("Score: {} High score: {}".format(score, high_score), align:
             time.sleep(delay)
         wn.mainloop()
```