```
import turtle
import time
import random
delay = 0.1
score = 0
high score = 0
# Creating a window screen
wn = turtle.Screen()
wn.title("Snake Game")
wn.bgcolor("blue")
# the width and height can be put
as user's choice
wn.setup(width=600, height=600)
wn.tracer(0)
# head of the snake
head = turtle.Turtle()
head.shape("square")
head.color("white")
head.penup()
head.goto(0, 0)
head.direction = "Stop"
# food in the game
food = turtle.Turtle()
```

```
colors = random.choice(['red',
'green', 'black'])
shapes = random.choice(['square',
'triangle', 'circle'])
food.speed(0)
food.shape(shapes)
food.color(colors)
food.penup()
food.goto(0, 100)
pen = turtle.Turtle()
pen.speed(0)
pen.shape("square")
pen.color("white")
pen.penup()
pen.hideturtle()
pen.goto(0, 250)
pen.write("Score : 0 High Score :
0", align="center",
          font=("candara", 24,
"bold"))
```

assigning key directions
def group():
 if head.direction != "down":
 head.direction = "up"

def godown():

```
if head.direction != "up":
        head.direction = "down"
def goleft():
    if head.direction != "right":
        head.direction = "left"
def goright():
    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)
```

```
wn.listen()
wn.onkeypress(group, "w")
wn.onkeypress(godown, "s")
wn.onkeypress(goleft, "a")
wn.onkeypress(goright, "d")
segments = []
# Main Gameplay
while True:
    wn.update()
    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"
        colors =
random.choice(['red', 'blue',
'green'])
        shapes =
random.choice(['square', 'circle'])
        for segment in segments:
            segment.goto(1000, 1000)
        segments.clear()
        score = 0
        delay = 0.1
        pen.clear()
        pen.write("Score : {} High
Score : {} ".format(
            score, high score),
align="center", font=("candara", 24,
"bold"))
    if head.distance(food) < 20:</pre>
```

```
x = random.randint(-270,
270)
        y = random.randint(-270,
270)
        food.goto(x, y)
        # Adding segment
        new segment =
turtle.Turtle()
        new segment.speed(0)
        new segment.shape("square")
        new segment.color("orange")
# tail colour
        new segment.penup()
        segments.append(new segment)
        delay -= 0.001
        score += 10
        if score > high score:
            high score = score
        pen.clear()
        pen.write("Score : {} High
Score : {} ".format(
            score, high_score),
align="center", font=("candara", 24,
"bold"))
    # Checking for head collisions
with body segments
    for index in
range(len(segments)-1, 0, -1):
        x = segments[index-1].xcor()
        y = segments[index-1].ycor()
        segments[index].goto(x, y)
    if len(segments) > 0:
        x = head.xcor()
```

```
y = head.ycor()
        segments[0].goto(x, y)
    move()
    for segment in segments:
        if segment.distance(head) <</pre>
20:
            time.sleep(1)
            head.goto(0, 0)
            head.direction = "stop"
            colors =
random.choice(['red', 'blue',
'green'])
            shapes =
random.choice(['square', 'circle'])
            for segment in segments:
                 segment.goto(1000,
1000)
            segments.clear()
            score = 0
            delay = 0.1
            pen.clear()
            pen.write("Score : {}
High Score : {} ".format(
                score, high score),
align="center", font=("candara", 24,
"bold"))
    time.sleep(delay)
wn.mainloop()
# import required modules
import turtle
import time
```

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if head.direction != "right":
        head.direction = "left"
def goright():
    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()
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        pen.clear()
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            score, high_score),
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        new segment.shape("square")
        new segment.color("orange")
# tail colour
        new segment.penup()
        segments.append(new segment)
        delay -= 0.001
        score += 10
        if score > high score:
            high score = score
        pen.clear()
        pen.write("Score : {} High
Score : {} ".format(
            score, high_score),
align="center", font=("candara", 24,
"bold"))
    # Checking for head collisions
with body segments
    for index in
range (len (segments) -1, 0, -1):
        x = segments[index-1].xcor()
        y = segments[index-1].ycor()
        segments[index].goto(x, y)
    if len(segments) > 0:
        x = head.xcor()
        y = head.ycor()
        segments[0].goto(x, y)
   move()
    for segment in segments:
        if segment.distance(head) <</pre>
20:
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time.sleep(1)
            head.goto(0, 0)
            head.direction = "stop"
            colors =
random.choice(['red', 'blue',
'green'])
            shapes =
random.choice(['square', 'circle'])
            for segment in segments:
                segment.goto(1000,
1000)
            segments.clear()
            score = 0
            delay = 0.1
            pen.clear()
           pen.write("Score : {}
High Score : {} ".format(
                score, high score),
align="center", font=("candara", 24,
"bold"))
    time.sleep(delay)
wn.mainloop()
```