

# turtle Module

# turtle Module – built in module used to draw graphics

```
import turtle
```

#Step 1: **Import** the turtle module

**Save As: `turtlemod.py`**

# Setup turtle commands

Command	Action
<code>turtle.bgcolor("color")</code>	Changes <b>background color</b> of the graphic window
<code>turtle.title("Title")</code>	<b>Window name</b>
<code>turtle.color("color")</code>	Change <b>pen color</b> to "colorName"
<code>turtleName.color("color")</code>	
<code>turtle.shape("____")</code>	"arrow", "turtle", "circle", "square", "triangle", "classic"
<code>turtleName.shape("____")</code>	

```
import turtle
```

#Step 1: **Import** the turtle module

```
turtle.bgcolor("color")
```

#Step 2: **Setup the window**

```
turtle.title("Enter Window Title")
```

**-background color**  
**-window title bar**

```
import turtle
```

#Step 1: **Import** the turtle module

```
turtle.bgcolor("aqua")
```

#Step 2: **Setup the window**

```
turtle.title("My Turtle Window")
```

```
turtleName = turtle.Turtle()
```

#Step 3: Give your **turtle object a name**

```
import turtle
```

#Step 1: **Import** the turtle module

```
turtle.bgcolor("aqua")
```

#Step 2: **Setup the window**

```
turtle.title("My Turtle Window")
```

```
turtleName = turtle.Turtle()
```

#Step 3: Give your **turtle object a name**

add turtle commands here

#Step 4: Draw using **turtle commands**.

add turtle commands here

add turtle commands here

# Simple turtle commands

Move and Draw Commands	Action
<code>turtle.circle(x)</code>	Draws a circle with <b>(x as radius)</b>
<code>turtle.forward(x)</code>	Move forward <b>(x number of pixels)</b> distance
<code>turtle.backward(x)</code>	Move backward <b>(x number of pixels)</b> distance
<code>turtle.right(x)</code>	Rotate right <b>(x degrees)</b>
<code>turtle.left(x)</code>	Rotate left <b>(x degrees)</b>
<code>turtle.done()</code>	Will pause the program.

**\*\*Search Internet for more useful turtle commands**

```
import turtle  
#Set up the Turtle Window  
turtle.bgcolor("aqua")  
turtle.title("My Turtle Window")
```

#Step 1: **Import** the turtle module

```
#Turtle Commands  
gigi = turtle.Turtle()  
gigi.shape("turtle")  
gigi.color("purple")  
  
gigi.circle(100)
```

#Step 2: **Setup the window**

```
turtle.done()
```

#Step 3: Give your **turtle object a name**

#Step 4: Draw using **turtle commands**.

**#Change the radius value to see the change.**

#Step 5: **Pause** turtle program.

```
import turtle  
#Set up the Turtle Window  
turtle.bgcolor("aqua")  
turtle.title("My Turtle Window")
```

#Step 1: **Import** the turtle module

```
#Turtle Commands  
gigi = turtle.Turtle()  
gigi.shape("turtle")  
gigi.color("purple")  
#gigi.circle(50)
```

#Step 2: **Setup the window**

```
gigi.forward(150)  
gigi.left(90)  
#add more commands here to draw a square  
...  
...  
turtle.done()
```

#Step 3: Give your **turtle object a name**

#Step 4: Draw using **turtle commands**.

#Step 5: **Pause** turtle program.

# Use a For Loop – to draw your square

```
import turtle
```

```
for varVal in range(#):  
    add turtle command(s) here
```

```
turtle.done()
```

## Some turtle method

METHOD	PARAMETER	DESCRIPTION
Turtle()	None	It creates and returns a new turtle object
forward()	amount	It moves the turtle forward by the specified amount
backward()	amount	It moves the turtle backward by the specified amount
right()	angle	It turns the turtle clockwise
left()	angle	It turns the turtle counter clockwise
penup()	None	It picks up the turtle's Pen
pendown()	None	Puts down the turtle's Pen
up()	None	Picks up the turtle's Pen
down()	None	Puts down the turtle's Pen
color()	Color name	Changes the color of the turtle's pen
fillcolor()	Color name	Changes the color of the turtle will use to fill a polygon
heading()	None	It returns the current heading
position()	None	It returns the current position
goto()	x, y	It moves the turtle to position x,y
begin_fill()	None	Remember the starting point for a filled polygon
end_fill()	None	It closes the polygon and fills with the current fill color
dot()	None	Leaves the dot at the current position
stamp()	None	Leaves an impression of a turtle shape at the current location
shape()	shapename	Should be 'arrow', 'classic', 'turtle' or 'circle'