Python Turtle Instructions

Basic Turtle Instructions

turtle.forward()	Go forward – put a number inside the brackets
turtle.backward()	Go backward– put a number inside the brackets
turtle.right()	Turn right– put a number inside the brackets
turtle.left()	Turn left– put a number inside the brackets
turtle.pensize()	Makes the line thicker - put a number inside the brackets
turtle.penup()	Lifts the pen up so you can move the turtle without drawing
turtle.pendown()	Drops the pen back onto the screen so you can draw
turtle.fillcolor("Brown")	Changes the fill colour to brown(or other colour)
turtle.pencolor("Red")	Changes the pen colour to red (or other colour)
turtle.begin_fill()	Begins to fill the shape
turtle.end_fill()	End the filling sequence
turtle.circle()	Put a number inside the brackets. This is the radius of the circle.

Open Thonny.

Each of the tasks bellows needs to be completed in a new Python document & saved using the task number as the file name.
You should use comments using # to explain what each part of the code means.

Task 1 – draw a square with a red line & brown fill colour

```
import turtle

# this import the turtle module and all the commands
turtle.fillcolor("Brown")
# this sets the fill colour of the shape to brown
turtle.begin_fill()
turtle.pencolor("Red")
turtle.forward (100)
turtle.right (90)
turtle.forward (100)
turtle.right (90)
turtle.forward (100)
turtle.right (90)
turtle.forward (100)
turtle.end_fill()
```

Task 2

Draw a circle with a radius of 75 with a blue line and a purple fill.

Task 3 – draw a rectangle with a line and fill colour of your choice.

```
import turtle
turtle.forward (150)
turtle.right (90)
turtle.forward (80)
turtle.right (90)
turtle.forward (150)
turtle.right (90)
turtle.forward (80)
```

You can Google turtle colours to find out which ones you can use.

Task 4

Add to Task 3 so that two rectangles are drawn on the screen. The second one should have sides of 120 and 190. It needs to have a red line & orange fill. (Use pen up & down to have them both on one program, but not touching each other when drawn on the screen.)

Task 5 – draw a triangle with your choice of colours. The triangle should be pointing upwards.

```
import turtle
turtle.forward (150)
turtle.right (120)
turtle.forward (150)
turtle.right (120)
turtle.forward (150)
turtle.right (120)
```

Task 6

Shape	Number sides	Angle
Pentagon	5	72
Hexagon	6	60
Octagon	8	45
Decagon	10	36

Write programs for at least 2 other shapes shown in the table above, each one of them needs to have different colours.