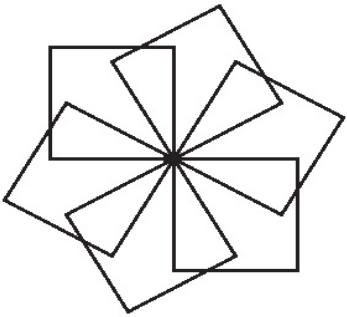
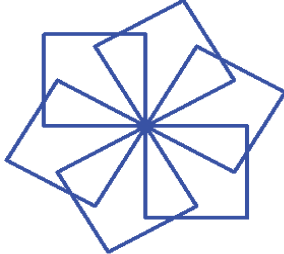
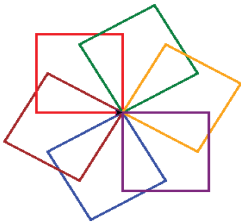
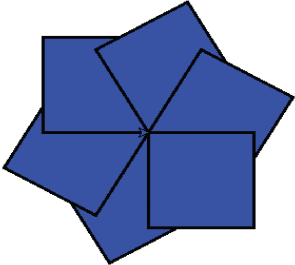
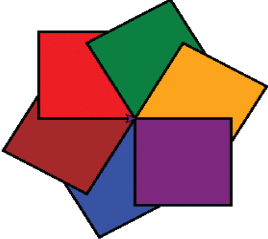


Name of Chapter	Unit 4 - Python Graphics
Name of Activity	Creating a pattern using squares
Software used	IDLE (Using Python 3.4)
Time	40 Minutes
Order of events	
Open Software	Open Python in the order Application→Programming→IDLE (Using Python 3.4) Click on File→New to open python program editor
Add commands for graphic shapes to work	<i>from turtle import*</i>
Type the commands below turtle command. <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <pre>for i in range(6): right(60) for printing the square six times and for rotating the squares by 60 degrees. for j in range(4): forward(100) right(90) for drawing a square</pre> </div>	<pre>clear() pensize(3) for i in range(6): right(60) for j in range(4): forward(100) right(90)</pre> 
Save and Run	Save the programme (File→Save) with a name(Say: program4.3) in your folder. To run the programme Click Run→Run Module or press F5
Changing the colour of pattern. To print the pattern in blue colour add color("blue") command	<pre>from turtle import* clear() pensize(3) for i in range(6): right(60) color("blue") for j in range(4): forward(100) right(90)</pre>  <p style="text-align: center;">Save and Run Module to observe changes</p>

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<p>creating shapes in different colours</p>	<pre> from turtle import* clear() pensize(3) clr=["blue","brown","red","green","orange","purple"] for i in clr: right(60) color(i) for j in range(4): forward(100) rt(90) </pre>  <p>Save and Run Module to observe changes</p>
<p>Filling the patterns.</p> <p>Give the instruction to fill the spaces in the pattern with blue colour and to draw the border in black</p>	<pre> from turtle import* clear() pensize(3) for i in range(6): right(60) color("black","blue") begin_fill() for j in range(4): forward(100) rt(90) end_fill() </pre>  <p>Save and Run Module to observe changes</p>
<p>Making Changes in code to get different colours for different spaces</p>	<pre> from turtle import* clear() pensize(3) clr=["blue","brown","red","green","orange","purple"] for i in clr: right(60) color("black",i) begin_fill() for j in range(4): forward(100) rt(90) end_fill() </pre>  <p>Save and Run Module to observe changes</p>

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