

**Python – Repeating Instructions**

Remember, save each program with the task number.

**Task 7 Repeating instructions**

Writing out the same instructions many times is not very efficient. Use the program below to write instruction in the form of a **loop**. The code on lines 3 and 4 is indented – this is important – it tells the program that these lines are to be repeated inside the loop.

**import turtle**

**for i in range(4):**

**turtle.forward(100)**

**turtle.right(90)**

**Task 8**

Have a look at the program below and try to work out what it will do. Think about:

* When the turtle will be drawing and when it won’t
* Which lines of code will be repeated and which won’t

**import turtle**

**turtle.penup()**

**turtle.backward(300)**

**turtle.pendown()**

**for i in range(4):**

**turtle.forward(100)**

**turtle.right(90)**

**turtle.penup()**

**turtle.forward(150)**

**turtle.pendown()**

**for i in range(4):**

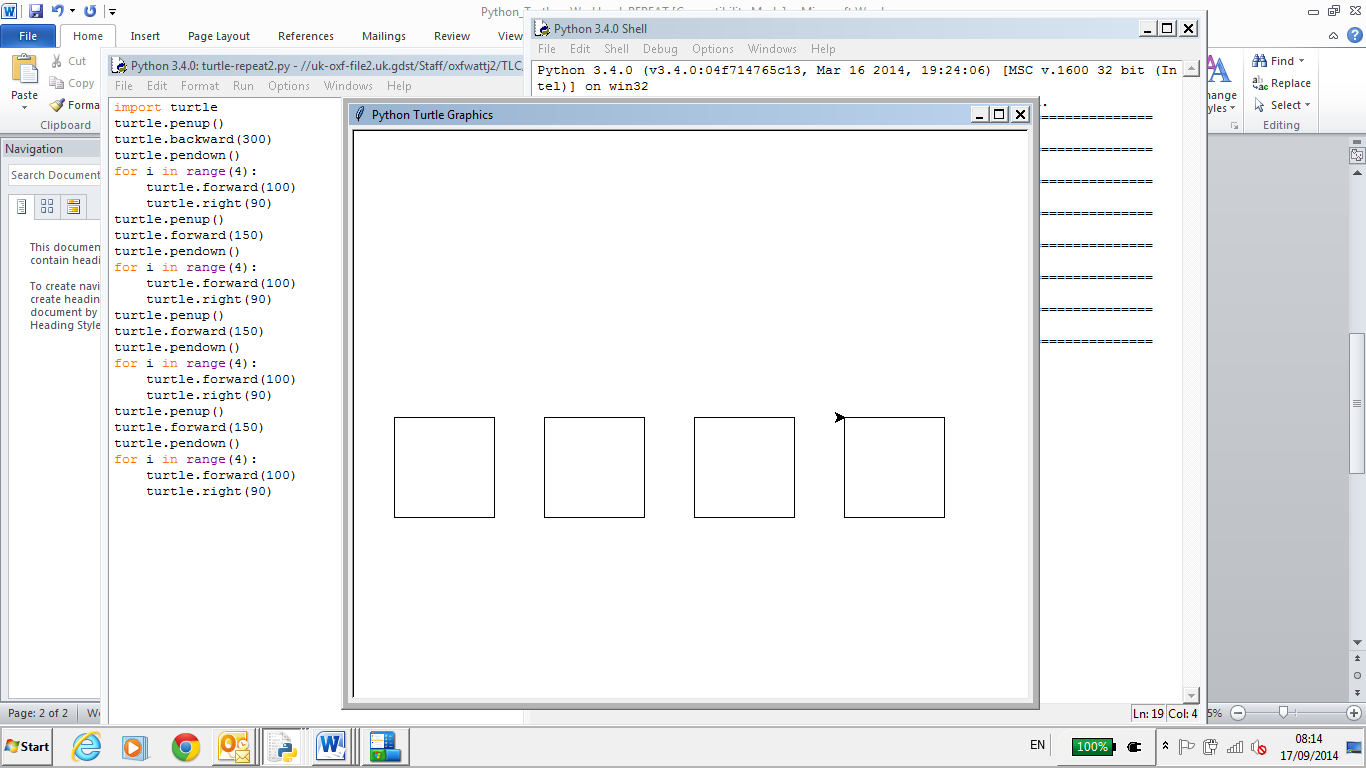
**turtle.forward(100)**

**turtle.right(90)**

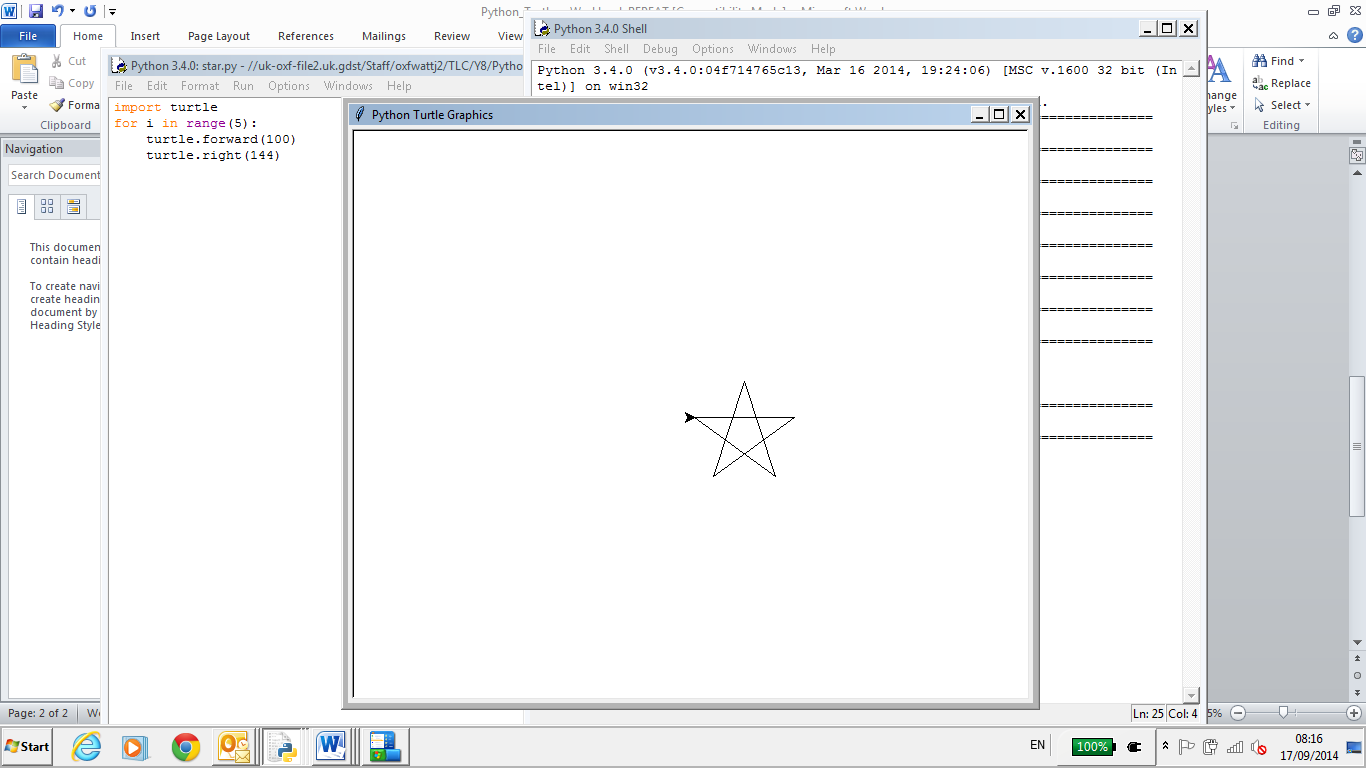
Now enter the program and run it to see if you were correct.

Write programs to draw the following patterns

**Task 9**

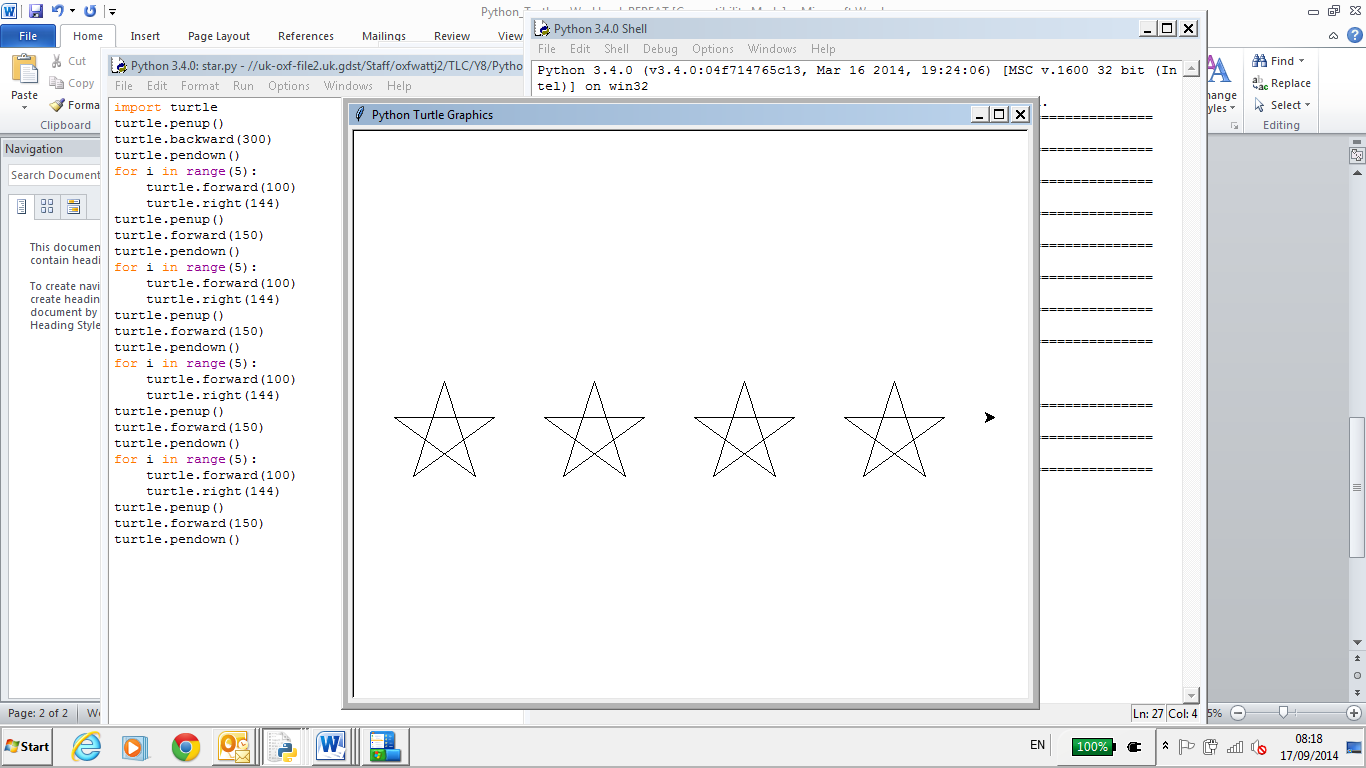


**Task 10**



(Hint: when drawing these 5 sides, the turle turns through 360o twice)

**Task 11**



Extra credit for using less than 15 lines of code!

**Task 12 Task 13**

