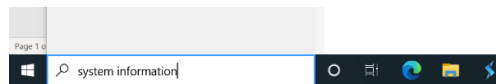


Bodgers Worksheet 1

Welcome to week 2 of the Bodgers group.

Some people had problems last week with installing the Mu Python code editor. The main problem seemed to be figuring out whether they had 32 or 64 bit systems, here are two ways to figure this out.

1. Type system information into the search box on the bottom of the screen.



Then look for System Type

System Name	LAPTOP-O6EINJL2
System Manufacturer	HP
System Model	HP Pavilion Laptop 14-ce0xxx
System Type	x64-based PC
System SKU	3ZU99EA#ABU
Processor	Intel(R) Core(TM) i7-8550U CPU @ 1.80GHz, 1992 ...
BIOS Version/Date	Insyde F.05, 20/09/2018
SMBIOS Version	3.0

2. For older versions of windows:
 1. On the Desktop, locate the icon labelled "My Computer."
 2. Point the mouse at the icon, then click the right mouse button.
 3. In the popup menu which appears, choose "Properties."
 4. After a few seconds, the System Control Panel will open.
 5. Click the tab labelled "General."
 6. The version of Windows you have installed will be clearly displayed.

You will find more information here <https://codewith.mu/en/howto/> and a you can download MU from here <https://codewith.mu/en/download>.

If you have trouble don't worry as we can still use <https://hourofpython.trinket.io/a-visual-introduction-to-python#/turtles/meet-tina> this week.

We only got as far as using snippet 1 of our code and we will finish this project off today.

Snippet 1.

```
import turtle

dec = turtle.Turtle()

sides = 1
num_of_sides = 4
length = 50

while sides < (num_of_sides + 1):
    dec.forward(length)
    dec.right(90)
    sides += 1
```

Snippet 2.

```
import turtle

dec = turtle.Turtle()

sides = 1
num_of_sides = 4
length = 50
offset = 10
repeats = 1

while repeats <=36:
    while sides < (num_of_sides + 1):
        dec.forward(length)
        dec.right(90)
        sides += 1
    sides = 1
    dec.right(offset)
    repeats += 1
```

Snippet 3.

```
import turtle

dec = turtle.Turtle()

sides = 1
num_of_sides = 4
length = 50
offset = 10
repeats = 1
runs = 0

while runs < 6:
    while repeats <=36:
        while sides < (num_of_sides + 1):
            dec.forward(length)
            dec.right(90)
            sides += 1
        sides = 1
        dec.right(offset)
        repeats += 1
    length += 20
    repeats = 1
    runs += 1
```

Snippet 4.

```
import turtle

dec = turtle.Turtle()
dec.speed(0)

colors = ["red", "orange", "yellow", "green", "blue", "purple"]
sides = 1
num_of_sides = 4
length = 50
offset = 10
repeats = 1
runs = 0

while runs < 6:
    dec.color(colors[runs])
    while repeats <= 36:
        while sides < (num_of_sides + 1):
            dec.forward(length)
            dec.right(90)
            sides += 1
        sides = 1
        dec.right(offset)
        repeats += 1
    length += 20
    repeats = 1
    runs += 1
```