

# **CodeFirstGirls Beginners Python**

# **Homework: Session 2**

#### This session:

- 1. User Input
- 2. Importing modules
- 3. Problem solving with Turtle
- 4. For Loops
- 5. Functions

#### Additional resources:

- Basic Python data-types <a href="https://realpython.com/python-data-types/">https://realpython.com/python-data-types/</a>
- Strings https://realpython.com/python-strings/
- String formatting (includes two common alternatives to the string formatting method covered in the session) <a href="https://realpython.com/python-string-formatting/">https://realpython.com/python-string-formatting/</a>
- Understanding error messages <a href="https://realpython.com/python-traceback/">https://realpython.com/python-traceback/</a>
- Variables <a href="https://realpython.com/python-variables/">https://realpython.com/python-variables/</a>

### **Question 1**

Explain what this program does

```
for number in range(100):
    output = 'o' * number
    print(output)
```

## **Question 2**

Your boss really likes calculating VAT on their purchases. It is their favourite hobby. They've written this code to calculate VAT and need your help to fix it.

```
def calculate_vat(amount):
    amount * 1.2

total = calculate_vat(100)
print(total)
```

When your boss runs the program they get the following output:

```
None
```

Your boss expects the program to output the value 120. What is wrong? How do you fix it?

### **Question 3**

sing the turtle module, write a program to draw a house. The house should at least have a roof, a door ome windows. Feel free to play around with the design of your house.	and