Lesson 01 - Introduction to Python

First Python Code

Characters

A character is any single item that can be printed to the screen. This can be letters, Numbers, or any other symbol the computer can display. Characters must be surrounded by "" or it will not display properly

Strings

A string is any collection of 2 or more characters in a row. For Example, this sentence is a string made up of letters, Spaces and symbols such as the comma and full stop.

Functions

A function is what a command is known as in Python. For Example, the function to place text on to the screen is the print command and is structured as follows

```
print("This is the print command")
```

This will place the sentence *This is the print command* to the screen.

Note the structure of the brackets and inverted commas to print a string to the screen.

Exercises

Exercise 01

Task 01

Using one print function, produce this output

```
1 Hello world.
```

Task 02

Using two print functions, produce this output

```
1 Question. What do you call it when you have your mom's mom on
  social media?
2 Answer. Instagran
```

Task 03

Using one print function and this code \\U0001f600\, produce this output.

```
1 🚇
```

Hint Even though this is a smiley face, you will still need to print the code like a string

Exercise 02

Task 01

Using one print function, produce this output

```
1 I am learning how to use the newline and tab special characters.
```

Task 02

Modify this code to replicate the output shown, using only one print function and the newline special character \n.

```
print("My favourite animal")
print("is the giraffe!")
```

```
1 My favourite animal
2 Is the giraffe!
```

Task 03

Modify the Following Code using the tab command to create the output below

```
1 print("I know how to use the tab special character!")
1 I know how to use the tab special character.
```

Task 4

Using one print function, produce this output using the **newline** and **tab** special characters

```
1 Today I learned.
2 How to use
3 The newline
4 and tab
5 special characters
```

Exercise 03

Task 01

Using one print function, produce this square using the newline and tab special characters.

```
1 ********
2 * *
3 * *
4 *
5 *********
```

Task 02

using just 1 print command recreate the shape below

Exercise 04

Task 01

Using one print function, produce this square inside a triangle with the word "Python!" inside of the square. Achieve this by using the newline and tab special characters.

Task 02

Using one print function, produce this circle. Achieve this by using the newline and tab special characters.

```
*****
1
2
                   **
                                   **
3
                                        **
              **
4
              **
              **
                                        **
6
              **
                                        **
7
                   **
                                   **
8
                        *****
```