# Lesson 01 - Introduction

## Accessing Replit

Go to <https://www.replit.com> and log in with your Adamstown email to create an account. You will be invited to join a team which will be used for sharing projects and assignments with you

## Creating First Repl

1. Graphical user interface, text, application

   Description automatically generatedUnder Template start typing python and choose Python as the template
2. It is important to give the Repl a recognisable name
3. finally click on the Blue Create Repl

## Replit Window

The main parts of the Replit Window A. The list of the files in the Repl. the file called main.py must be there as this is what is run. B. Then the main coding window. This is where the code is placed C. The console window is where the output of the program goes.

## 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.

## Practice Code

### Exercises

#### Exercise 01

##### Task 01

Using one print function, produce this output

Hello world.

##### Task 02

Using two print functions, produce this output

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

##### Task 03

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

😀

**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

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!”)print(“My favourite animal”)  
print(“is the giraffe!”)

My favourite animal  
Is the giraffe!

##### Task 03

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

print(“I know how to use the tab special character!”)

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

Today I learned.  
​ How to use  
​ The newline  
​ and tab  
​ special characters

#### Exercise 03

##### Task 01

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

\*\*\*\*\*\*\*\*\*\*  
\* \*   
\* \*   
\* \*   
\*\*\*\*\*\*\*\*\*\*

##### 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.

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**\* \***

**\* \* \* \* \***

**\* \* PYTHON! \* \***

**\* \* \* \***

**\* \* \* \* \* \* \* \* \* \* \***

##### Task 02

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

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