



## SIMPLE PYTHON ACTIVITIES FOR KIDS

To create a new program **ALWAYS**:

- Open the Python app and tap idle.
- Then select File > New Window. This will open an empty shell window for you to write your new program.
- After you have entered your code, choose File > Save. Ensure that your file name has 'py' extension at the end.
- For example; you could save the first task as helloworld.py .  
Then choose Run > run module.

### 1-My first program: Hello, World!

Remember you can use the hash (#) to put comments in your code.

**Task:** Write a program that prints out 'Hello, World!'

#### CHALLENGE

Look at the following example, test it and identify the error.

```
Print ("hello')
```

2- In Python we could store the words or numbers in variables.

```
firstname='Yasemin'  
lastname='Allsop'  
print (firstname, lastname)  
Yasemin Allsop
```

**Task:** Can you store words in variables to print your favourite book author?

### CHALLENGE

Write a program to give information about yourself e.g.; name, surname, age, birth, city, etc.

### 3- Question time!

In Python you can write programs to get information from the user by asking questions. Run the following script:

```
age= input ("How old are you?")  
print ( age)
```

**Task:** Write programs that ask the user their name, favourite colour and favourite food.

#### 4. Python mathematics: In Python we can do basic calculations.

operator	Operation
+	Addition
-	Subtraction
*	Multiplication
/	Division
**	To the power of
%	Percentage

Test the code below:

```
>>> print (4*3)
```

**Task:** Write a program to solve the problems below.

Problem	Answer
28+34	
68-31	
2**3	
10%100	
125/5	

#### CHALLENGE

Challenge: run the program below. Why is the answer is 17 not 30?

```
>>> print (2+5*3)
```

```
17
```

## 5- Writing a program to find the area of a rectangle:

Test the program below:

```
print("Let's calculate the area of a rectangle")
length = float(input("Length: "))
width = float(input("Width: "))
print("Area:", length * width)
```

**Task:** Can you write a program to calculate the perimeter of a rectangle?

### CHALLENGE

What about writing a program to find the area and the perimeter of a triangle?

## 6- Conditionals- If statement

Look at the example below:

```
answer = input("Do you like coding? [Yes/No]")
if answer == "yes":
    print("I love coding too")
else:
    print("Maybe we could try together")
```

**Task:** Come up with an if statement and write a program in Python to print it.