**Scripting**

CW\_KRSIT\_H

Lab One

Purpose : To get familiar with writing python and working with idle

Remember-

No curly brackets, indent your code

Functions are declared with **def**

Add a colon after a function

Use # to add comments

Installing python

<https://www.python.org/downloads/>

Open IDLE, it will be in your python folder in your apps, by default it opens the interpreter to create a new python file go file->new file, F5 or run in the menu bar will run your python module

1. Create a python file in IDLE hello\_world.py ,
2. **Note** You can edit python files in any text editor, such as notepad++ or atom and run them from command line using py filename.py , if creating a file outside an editor make sure it is saved as a.py file and not a .py.txt file , it should have the following icon

Icon

Description automatically generated

Write a line to Print out hello world

Save and run

2.

Add a function called hello

That prints out a message using your name, e.g “hello to you bob”

At the bottom of the file add

**if \_\_name\_\_ == "\_\_main\_\_":**

**hello()**

This line will make hello your main function to be called at the start

Save and run your file

4. Create a python file called calculator.py

Add a function called add that takes two arguments and prints the result

Test it out

e.g

**if \_\_name\_\_ == "\_\_main\_\_":**

**add(2,4)**

**add(7,9)**

Add a function divide that takes two arguments and returns the result

Call divide and print the result in your main call

Try calling divide(5,0) and see the error you get

Add a check for if the second number is zero, if it is return 0 instead of dividing

To do an if else in python

if val == num :

return val

else:

return 0

Add a function subtract that takes no arguments

In subtract ask the user for two inputs and minus them from each other

Print the result

Comment your code , explain what each function does, what is its inputs , what is its outputs

Any errors you encountered when creating these programs and subsequently fixed paste them as an error log at the bottom of your code and write a description of why they occurred and how you fixed them.