# **Question 1**

Research on whether addition, subtraction, multiplication, division, floor division, and modulo operations be performed on complex numbers. Based on your study, implement a Python program to demonstrate these operations.

Floor division and modulo operations cannot be performed on complex numbers

### **Question 2**

Research on range() functions and its parameters. Create a markdown cell and write in your own words (no copy-paste from google please) what you understand about it. Implement a small program of your choice on the same.

#### **Answer**

Range is actually a class, but we call it as a function due to the paranthesis. It is generally used in Loops to iterate over statements.

the parameters of the Range are range(Start, stop, step)

```
In [9]: list1=[1,2,3,4,5,6,7,8,9]
list(range(0,9,3))
Out[9]: [0, 3, 6]
```

### **Question 3:**

Consider two numbers. Perform their subtraction and if the result of subtraction is greater than 25, print their multiplication result else print their division result.

```
In [10]: a=100
b=25
c=a-b
if c>25:
    print(a*b)
else:
    print(a/b)
```

## **Question 4:**

Consider a list of 10 elements of integer values. If the number in the list is divisible by 2, print the result as "square of that number minus 2".

# **Question 5:**

Consider a list of 10 elements. Print all the elements in the list which are greater than 7 when that number is divided by 2