In [1]:
```
2+2
```

Out[1]: 4

In [2]:
```
numeric=int(input("Enter a Number"))
```

```
Enter a Number4
```

In [3]:
```
numeric
```

Out[3]: 4

Creating a module for sorting data from users

In [4]:
```
def data(N):
    user_data=[]
    for i in range (0,N):
        numeric=int(input("Enter a Number"))
        user_data.append(numeric)
    return user_data
```

In [5]:
```
data(4)
```

```
Enter a Number1
Enter a Number2
Enter a Number3
Enter a Number4
```

Out[5]: [1, 2, 3, 4]

In [ ]:
```

```

Module to create Addition

- function
- logical
- return

In [6]:
```
def addition(a,b):
    c=a+b
    return c
```

Simple Testing

In [7]:
```
addition(5,5)
```

Out[7]: 10

Module to create subtraction

- function
- logical
- return

In [8]:
```
def subtraction(a,b):
    c=a-b
    return c
```

Simple Testing

In [9]:
```
subtraction(6,5)
```

Out[9]: 1

Module to create Multiplication

- function
- logical
- return

In [10]:
```
def multiplication(a,b):
    c=a*b
    return c
```

Simple Testing

In [11]:
```
multiplication(5,5)
```

Out[11]: 25

Module to create Division

- function
- logical
- return

In [12]:
```
def division(a,b):
    c=a/b
    return c
```

Simple testing

In [13]:
```
division(5,5)
```

Out[13]:
```
1.0
```

Create a class

In [14]:
```
class basic_calculator():
    def addition(a,b):
        c=a+b
        return c

    def subtraction(a,b):
        c=a-b
        return c

    def multiplication(a,b):
        c=a*b
        return c

    def division(a,b):
        c=a/b
        return c
```

In [15]:
```
calculator.multiplication(5,2)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-15-5eb117a3fe03> in <module>
----> 1 calculator.multiplication(5,2)

NameError: name 'calculator' is not defined
```

Prompt the user for the operator(- , + , * , /)

In [ ]:
```
user_operator=input("Enter the any operator name given in bracket(add, sub, mul,
```

In [ ]:
```
user_operator.lower()
```

In [ ]:
```
def Operator():
    user_operator=input("Enter the any operator name given in bracket(add, sub, m
    if user_operator.lower()=='add':
        print('Successfully Added')
        print(basic_calculator.addition(a,b))
    elif user_operator.lower()=='sub':
        print('Successfully Subtracted')
        print(basic_calculator.subtraction(a,b))
    elif user_operator.lower()=='mul':
        print('Successfully Multiplied')
        print(basic_calculator.multiplication(a,b))
    elif user_operator.lower()=='div':
        print('Successfully Divided')
        print(basic_calculator.division(a,b))
    else:
        print("The input is not vaild Re-Run The Program")
```

Alpha Version of application

In [16]:
```
Data_from_function=data(2)
Operator(Data_from_function[0],Data_from_function[1])
```

```
Enter a Number20
Enter a Number100

---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-16-ca522728ed17> in <module>
      1 Data_from_function=data(2)
----> 2 Operator(Data_from_function[0],Data_from_function[1])

NameError: name 'Operator' is not defined
```

In [ ]:
```

```