Intro to jupyter notebook

How to run markdown or code cell?

ctrl +Enter ---> Will run the cell and cursor will be in same cell
Alt + Enter --> Will run the cell and create an empty cell below
Shift + Enter --> Run the cell and cursor will be in the next cell.
if next cell is not there it will create a cell

new markdown cell

> This is a sepearte paragraph

Cell type conversion

- from markdown to code 'Esc y'
- from code to markdown 'Esc m'

other topics

1. ordered list
2. insert an image
3. insert hyperlink

Python

markdown cheat sheet (https://www.markdownguide.org/cheat-sheet/)

Python Basic Mathematical Operators

In [3]:
```
print('Python Basic Mathematical Operators')
print(34 + 2)
print(44 - 7)
```

```
Python Basic Mathematical Operators
36
37
```

In [4]:
```
print(77/2)
print(77//2)
print(77 % 3)
```

```
38.5
38
2
```

In [5]:
```
a = 77
b = 4
print(a,b)
```

```
77 4
```

In [6]:
```
print(a+b)
print(a/b)
print(a//b)
print(a%b)
```

```
81
19.25
19
1
```

In [7]:
```
s ="hello"
s * b
```

Out[7]:
```
'hellohellohellohello'
```

In [8]:
```
s1 = "world"
print(s+s1)
print(s +" " +s1)
```

```
helloworld
hello world
```

In [9]:
```
print(a,b,s,s1)
```

```
77 4 hello world
```

In [10]:
```
print(type(a),type(b),type(s),type(s1))
```

```
<class 'int'> <class 'int'> <class 'str'> <class 'str'>
```

In [11]:
```
a = "python"
print(a,type(a))
```

```
python <class 'str'>
```

In [12]:
```
print(b,type(b))
b = True
print(b,type(b))
```

```
4 <class 'int'>
True <class 'bool'>
```

In [13]:
```
i = "27"
print(i,type(i))
```

```
27 <class 'str'>
```

In [14]:
```
str(34),int("78"),float('56.5')
```

Out[14]:
```
('34', 78, 56.5)
```

In [15]:
```
i= int(i)
print(i,type(i))
```

```
27 <class 'int'>
```

In [16]:
```
int("hello")
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
<ipython-input-16-a6f1987f81d0> in <module>()
----> 1 int("hello")

ValueError: invalid literal for int() with base 10: 'hello'
```

In [17]:
```
float("568.78")
```

Out[17]:
```
568.78
```

In [18]:
```
b1 = True
b2 = True
print(b1+b2)
print(b1-b2)
print(b1/b2)
print(b1%b2)
```

```
2
0
1.0
0
```

In [19]:
```
True + 57
```

Out[19]:
```
58
```

In [20]:
```
print("hello")
print("everyone")
print("thirderror")
```

```
hello
everyone
thirderror
```

In [21]:
```
5 ** 3
```

Out[21]:
```
125
```

In [22]:
```
5 ^ 3 # 101^011=110 bitwise xor operation
```

Out[22]:
```
6
```

In [23]:
```
s3 = 'single'
s4 = "double"
s5 = '''triple single quote'''
s6 = """triple double quote"""
print(s3,s4,s5,s6,sep =',')
print(type(s3),type(s4),type(s5),type(s6))
```

```
single,double,triple single quote,triple double quote
<class 'str'> <class 'str'> <class 'str'> <class 'str'>
```

In [24]:
```
s7 = 'I don\'t want to learn python'
s8 = "I don't want to learn python"
print(s7)
print(s8)
```

```
I don't want to learn python
I don't want to learn python
```

In [25]:
```
s9 = '"python" is a popular language'
s10 ="\"python\" is a popular language"
print(s9)
print(s10)
```

```
"python" is a popular language
"python" is a popular language
```

In [26]:
```
s11 ='''python is popular
so we are learning python'''
print(s11)
s11
```

```
python is popular
so we are learning python
```

Out[26]:
```
'python is popular\nso we are learning python'
```

In [34]:
```
ivalue = input("Enter a number")
print(ivalue,type(ivalue))
ivalue = int(ivalue)
print(ivalue,type(ivalue))
```

```
Enter a number78
78 <class 'str'>
78 <class 'int'>
```

In [35]:
```
ivalue = int(input("Enter a number"))
print(ivalue,type(ivalue))
```

```
Enter a number78
78 <class 'int'>
```

In [31]:
```
svalue = input("Enter a string")
print(svalue,type(svalue))
```

```
Enter a stringpython
python <class 'str'>
```

In [36]:
```
fvalue = float(input("Enter a Floating point number"))
print(fvalue,type(fvalue))
```

```
Enter a Floating point number78.89
78.89 <class 'float'>
```

Read the first name,last name of person and print them in reverse order
Example
First Name : Suman
Last Name : Roy
O/p : Roy Suman

In [38]:
```
firstName = input("Enter First Name: ")
lastName = input('Enter last Name: ')
print(lastName,firstName)
print(lastName+' '+firstName)
```

```
Enter First Name: Suman
Enter last Name: Roy
Roy Suman
Roy Suman
```

Read a name and a number n. Repeat the name n times.

Example
name : Python
n : 3
o/p :Python Python Python

In [40]:
```
1 name = input("Enter a name")
2 n = int(input("enter number"))
3 print((name+' ')*n)
```

```
Enter a namePython
enter number3
Python Python Python
```

In [ ]:
```
1
```