Type *Markdown* and LaTeX: α^2

In []:

Notebook Basics

Type *Markdown* and LaTeX: α^2

Markdown Basic

- Bold
- itallic
- IB
- normal text
 - sublist1
 - sublist2
 - 1. oredered list elements 1
 - 2. Oredered list elements 2
- ✓ option1
- ✓ option2
- ✓ option3

jupyter (jupyter.jpg)



I get 10 times more traffic from [Google] <u>1 (http://google.com/)</u> than from [Yahoo] <u>2 (http://search.yahoo.com/)</u> or [MSN] <u>3 (http://search.msn.com/)</u>.

printf("Hello Markdown")

https://google.com/ (https://google.com/)

sireesha130276@gmail.com (mailto:sireesha130276@gmail.com)



Type *Markdown* and LaTeX: α^2

Python Basics

python version 3.7

- · Scripting language
- · Object oriented
- functions

```
In [1]: # python comments symbol
    print("Hello Sir Good Afternoon",'!')
    print("Hello Sir Good Afternoon",'!',end=" ")
    print("Hello Sir Good Afternoon",'!',end="||") #Basic Output
    print('Hello python')

Hello Sir Good Afternoon !
Hello Sir Good Afternoon ! Hello Sir Good Afternoon !||Hello python
In []:
```

Assignment

345

```
In [ ]:
```

Data Types

- int
- float
- string
- double

```
In [58]: type(a)
    s1 = 'Python'
    type(s1)
    f1 = 12.345
    type(f1)
    int(f1)
    str(int(f1))
    float(str(int(f1)))
    #int(str(str(s1)))
```

Out[58]: 12.0

Arithmetic Operations

- +
- -
- *
- %
- **
- . /

```
In [68]: n1 % 11 #we got output as 3 since we didnt get output as '0' then it is not a factor of the state of
```

Out[68]: 5.813024781898188e+18

```
In [ ]:
```

Conditionals

```
In [75]: if atoms < 10 ** 9:
             print("TRUE")
         else:
             print("FALSE")
         # True is default keyword
         #False is a default keyword
         FALSE
         a=int(input("Enter value"))
In [77]:
         b=int(input("Enter another value"))
         if (a%b==0):
             print("a is even number")
         else:
             print("it is not even")
         Enter value5
         Enter another value2
         it is not even
In [78]: # Check if a number is even
         n = 123
         if n % 2 == 0:
             print("Even")
         else:
             print("Odd")
         Odd
 In [6]: # Find the greatest of 3 numbers
         n1 = int(input("Enter the first number"))
         n2 = int(input("Enter the second number"))
         n3 = int(input("Enter the third number"))
         if n1 > n2 and n1 > n3:
             print(n1, "is the greatest")
         elif n2 > n3:
             print(n2, "is the greatest")
              print(n3, "is the greatest")
         Enter the first number-1
         Enter the second number-3
         Enter the third number-100
         -1 is the greatest
```

```
In [ ]: | # check if a year is a Leap Year
         y1 = int(input("Enter an year to check leap year"))
         if y1%400==0 or y1%100!=0 and y1%4==0:
              print("y1 is Leap year")
          else:
              print("y1 is not a leap year")
 In [ ]: | # Check if a number in a given range(inclusive range)
         n1 = eval(input("Enter number to check in given range"))
         lb = eval(input("Enter lower bound"))
         up = eval(input("Enter upper bound"))
         if n1 >= lb and n1 <= ub:</pre>
              print("it is in range")
          else:
                    print("does not exit ")
 In [6]: #Calculate the number of digits in a number
          s = 1333
         type(s)
         print(len(str(s)))
         4
 In [8]: #Check if a number is a multiple of 10
         a = int(input("Enter a number"))
          if a%10==0:
              print("a is multiple of 10")
              print(" a not a multiple of 10")
         Enter a number1000
         a is multiple of 10
 In [5]: #Check if given string is equal to a number
         s1 = "123456"
         n1 = 123456
         if str(n1) == s1:
              print(n1, "is equal to",s1)
          else:
              print(n1, "is not equal to",s1)
         123496 is not equal to 123456
In [10]: #Caculate the Squre root of a number without functions
         n1 = 10
         n1 ** 0.5
Out[10]: 3.1622776601683795
```

```
In [2]: #nano seconds
    year = 2019
    if year%400==0 or year%100!=0 and year%4==0:
        print(366 * 24 * 60 * 60 * (10**9))
    else:
        print(365 * 24 * 60 * 60 * (10**9))
```

315360000000000000

```
In [7]: # Check if a number is factor of 1000
    n1=12
    if 1000 % n1 == 0:
        print("n1 is factor of 1000")
    else:
        print("not a factor of 1000")
```

not a factor of 1000

```
In [ ]:
```