Markdown Basics

- Bold
- Itallic
- IB
- Normal Text
 - Sublist1
 - Sublist2
- 1. Ordered list element1
- 2. Ordered list element2

<u>JupyterLogo (JupyterLogo.png)</u>



python Basics

Python Version 3.7

-scripting

```
In [27]: #Python comments
    print("Good Afternoon !",end=" ") # Basic output
    print ("Hello python")
```

Good Afternoon! Hello python

Data types

- 1. int
- 2. float
- 3. string
- 4. double

Assignment

Arithmetic Operation

```
• +
```

. -

- X
- /
- %

Conditionals

FALSE

```
In [36]: type(a)
         s1="python"
         type(s1)
         f1=12.35
         type(f1)
         int(f1)
         float(f1)
         float(str(int(f1)))
         122321 ** 9
Out[36]: 6130687873308026945890176790042303730066739281
In [5]: | #check if a number is Even
         n=123
         if n%2==0:
              print ("Even")
         else:
             print("odd")
         odd
In [ ]: # find the greatest of 3 num
         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")
         else:
             print(n3,"is the greatest")
In [2]: ## Check if a year is leap year
         n1=int(input("Enter the year"))
         if n1%4==0:
             print("leap year")
         elif n1%400==0 and n1%100!=0:
              print("leap year")
         else:
             print ("not leap year")
```

Enter the year2019 not leap year

```
In [6]: # check if a number exists in a given range(include)
        n1=int(input("Enter the num"))
         1b=123
         ub=143
         if 123<= n1 >=143:
             print("It is in range")
         else:
             print("it is not in range")
        Enter the num1145
        It is in range
In [1]:
        #Calculte the number of digits in a number
         n1=13242342
        print(len(n1))
        TypeError
                                                   Traceback (most recent call last)
        <ipython-input-1-95acc26cbe22> in <module>
               1 #Calculte the number of digits in a number
               2 n1=13242342
         ----> 3 print(len(n1))
        TypeError: object of type 'int' has no len()
In [ ]: #check if a number is a multiple of 10
        n1=int(input("Enter the number"))
         if n1%10==0:
             print(n1,"is multiple")
         else:
             print(n1,"not a multiple")
In [2]: # check if given atring
         if
In [8]: | #calculate the square root of a number without
        n1=123
        n1 ** 0.5
Out[8]: 11.090536506409418
```

```
In [2]: #calculate the number of nano seconds in a given year(considering leap year lo
         gic)
         n=2019
         if n%4==0 or n%400==0 and n%100!==0:
             print (366 * 24 * 60 * 60 * (10**9) )
         else:
             print (365 * 24 * 60 * 60 * (10**9) )
           File "<ipython-input-2-70493fc141df>", line 3
             if n%4==0 or n%400==0 and n%100!==0:
         SyntaxError: invalid syntax
In [13]: # check a given number is factor of the number or not
         n1=int(input("Enter the number"))
         if 1000%n1==0:
             print(n1,"is a factor of 1000")
         else:
             print(n1,"is not a factor of 1000")
         Enter the number10
         10 is a factor of 1000
In [ ]:
```