Markdown Basics

Italic
bold
Italic Bold

- normal text

unordered list

- sublist 1
- sublist 2

ordered list

> 1. list 1
> 2. list 2

adding links

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

```
printf("Hello Markdown")
```

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

image adding

Jupyter Logo (jp.png)

Type *Markdown* and LaTeX: α^2

python basics

Python version 3.7

-scripting -object oriented -functional

In [1]:
```
#python comments

print("Good Afternoon", "!", end="||")#Basic output
print("hai this is srikanya")

```

```
Good Afternoon !||hai this is srikanya
```

In [ ]:
```

```

In [ ]:
```

```

Assignments

In [2]:
```
n1=123456 #single variable assignment

n2=n3=n4=n1 #multi variable assignment of the same value

print(n1,n2,n3,n4)

n2
a,b,c=123,234,345  #multi variable asssignment with different values

print(a,b,c)



```

```
123456 123456 123456 123456
123 234 345
```

Data Types & Type conversions

- int
- float
- string

In [3]:
```
type(a)
s1="python"
type(s1)

f1=12.34
type(f1)

float(str(int(f1)))
```

Out[3]:
```
12.0
```

Arthmetic Operations

- +
- -
- *
- /
- ^
- %

In [4]:
```
n1 % 11

n3=n2 ** 123456

type(n3)

len(str(n3))

atoms = 10 ** 82

len(str(atoms))

type(str(atoms))

len(str(atoms))

122321 ** 9

```

Out[4]:
```
6130687873308026945890176790042303730066739281
```

In [ ]:
```

```

Conditionals

In [ ]:
```
if atoms < 10 ** 96:
    print("TRUE")
else:
    print("FALSE")
```

```
TRUE
```

In [ ]:
```
#check if a number is even

n=123
if n % 2==0:
    print("EVEN")
else:
   print("odd")

```

```
odd
```

check the greatest of 3 numbers

n=int(input("Enter the First number"))

n1=int(input("Enter the second number"))

n2=int(input("Enter the third number"))

if n > n1 and n1 > n2:

    print(n,"is the greatest")

elif n1 > n2:

    print(n1,"is the greatest")

else: print(n2,"is the greatest")

In [ ]:
```
### check if a year is leap year or not
n=int(input("Enter the year"))
if(n%400==0 or (n%100!=0 and n%4==0)):
    print("given year is leap year")
else:
    print("given year is not leap year")
```

In [4]:
```
##### check if a number exists in a given range
n1=int(input("Enter the first number"))
lb=int(input("Enter the lower bound"))
ub=int(input("Enter the upper boubd"))
if(n1 > lb and n1 < ub):
    print("Yes")
else:
    print("No")
```

```
Enter the first number10
Enter the lower bound5
Enter the upper boubd15
Yes
```

In [13]:
```
## check if a number of digits in a number
n1=int(input("Enter the number "))
c=0
while(n1!=0):
    n1=n1//10
    c=c+1
print(c)

```

```
Enter the number 2345
4
```

In [5]:
```
###check if a number is a multiple of 10
n1=int(input("Enter the number"))
if(n1%10==0):
    print("multiple of 10")
else:
    print("not a multiple of 10")

```

```
Enter the number5
not a multiple of 10
```

In [6]:
```
###check if a number is factor of 1000
n1=int(input("Enter the number"))
if(n1%1000==0):
    print("yes")
else:
    print("no")
```

```
Enter the number2000
yes
```

In [9]:
```
###check if given string is equal to a number
s1="123"
n1=1234
if str(n1)==s1:
    print(n1,"is equal to",s1)
else:
    print(n1,"is not equal to",s1)
```

```
1234 is not equal to 123
```

In [10]:
```
### calculate the square of a number
n1=123
n1 ** 0.5
```

Out[10]:
```
11.090536506409418
```

In [11]:
```
### calculate the no of nano seconds
y=2019
if(y%400==0 or (y%100!=100 and y%4==0)):
    print(366 * 24 * 60 * 60 *(100**9))
else:
    print(365 * 24 * 60 * 60 *(100**9))
```

```
31536000000000000000000000
```

In [ ]:

```
###calculate the given no is prime or not
n1=int(input("Enter the number"))
i=1
c=0
while(i<=n1):
    if(n1%i==0):
        c=c+1
        i=i+1
if(c==1):
    print("prime")
else:
    print("not a prime")

```

In [ ]:

```

```