Mark Down Basics

- **Bold**
- *Italic*
- ***IB***
- Normal Text
  - Sublist1
  - Sublist2

1.Ordered "\t" List 1
2.Ordered List 2

- [ ] Option 1
- [ ] Option 2
- [x] Option 3

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'printf("Hello Mastan")'

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/).

> Mastan Vali Vali MAstan

My Image (a.jpg)

Python Basics

Python Version 3.7

- Scripting

- Object Orinted
- Functional

In [7]:
```
# Pyhton Comments

print("Good Afternoon !","Mastan Vali", end="||") # Basic Output

print("Hello Python")
```

```
Good Afternoon ! Mastan Vali||Hello Python
```

In [ ]:
```

```

Assignment

In [15]:
```
n1 = 123456 # Single Varble assignment
n2 = n3 = n4 = n1  # Multiline varible Assignment
a,b,c = 123, 234, 345

print(a,b,c)
```

```
123 234 345
```

In [ ]:
```

```

Data Types

- int
- float
- string
- double

In [ ]:
```
s1 = "Python"
type(s1)

f1 = 12.345
type(f1)

int(f1)
```

In [ ]:
```

```

In [ ]:

In [ ]:

Arithematic Operations

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

In [ ]:
```
n1 % 11 #11 is not a factor of n1

n3 = n2 ** 1234

type(n3)
len(str(n3))
```

In [ ]:
```
atoms=10 ** 82
```

In [ ]:

Conditionals

In [3]:
```
v=10
if v > 25:
    print("True")
else:
    print("Fasle")
```

```
Fasle
```

In [4]:
```
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")
else:
    print(n3, "is the greatest")
```

```
Enter the first number-1
Enter the second number-50
Enter the third number-2
-1 is the greatest
```

In [28]:
```
# check if an year is leap year
year = int(input("Enter year"))
if (year%400 == 0 or (year%100 != 0 and year%4==0)):
    print("Leap year")
else:
     print(" not Leap Year")
```

```
Enter year2005
 not Leap Year
```

In [12]:
```
# Check if a number exists in a given range
n1=int(input("Enter a number"))
lb=int(input("Enter a lower Bound number "))
ub=int(input("Enter a upper Bound number "))
if n1 in :
    print("Exist")
else:
    print("Not Exists")
```

```
Enter a number10
Enter a lower Bound number 20
Enter a upper Bound number 15
Not Exists
```

In [29]:
```
# Calculate the number of digits in a number
n1=input("Enter a number")
len(str(n1))
```

```
Enter a number2019
```

Out[29]:
```
4
```

In [19]:
```
# Check if a number is a multiple of 10
n1=int(input("Enter a number"))
if n1%10 == 0:
    print("the given number is devisible by 10")
else:
    print("Not Divisible by 10")
```

```
Enter a number3
Not Divisible by 10
```

In [21]:
```
# check if a number is a factor of 1000
n1=int(input("Enter a number"))
if 1000%n1 == 0:
    print("yes")
else:
    print("No")
```

```
Enter a number20
yes
```

In [30]:
```
# check if given string is equal to a number
a=input("Enter a number")
b=input("Enter a number")
if a == b:
    print("True")
else:
    print("False")
```

```
Enter a number20
Enter a number29
False
```

In [31]:
```
# Caculate the square root of a number without function

n1=int(input("Enter a number"))
res = n1**0.5
print(res)
```

```
Enter a number20
4.47213595499958
```

In [33]:
```
# Caculate the number of nano seconds in a given year (consider the leap year log
year = 2019
if (year%400 == 0 or (year%100 != 0 and year%4==0)):
    print(366 * 24 * 60 * 60 * (10**9))
else:
    print(366 * 24 * 60 * 60 * (10**9))
```

```
31622400000000000
```

In [ ]:
```

```

In [ ]:

In [ ]: