PYTHON CHEATSHEET

First Program - “Hello World”

```
python = “Hello World”
print(python)
```

Comments

single line comment starts with #
multi line comment is in between “”” “””

Variables

```
a = 5
b = “Hello World”
```

variable name starts with alpha. or _
variable can not contain !,@,#,$ and so on

Data Types (Primitive)

1. Integer (Whole Number)(ex. 5,8,0,-85)
2. String (In between “ ”)(ex. “Hello”)
3. Float (Decimal Number)(ex. 2.3,0.0,-9.99)
4. Bolean (True or False)

Data Types (Non-Primitive)

1. List (In between square brackets)
   (ex. list = [1,5,-5.2,”Hello”])
2. Set (In between curly brackets)
   (ex. set = {1,5,-5.2,”Hello”})
3. Dictionary (It contains key-value pairs)
   (ex. dict = {”name” : “papa programmer”,
   “age” : 18 })
4. Tuple (In between ( ), we can not change value of it’s element)
   ex. tuple = (1,5,-5.2,”Hello”)

Working with lists

```
list = [”India”,”USA”,”Canada”]
-- Access element from list
   list[0]       #India
   list[1]       #USA
-- Add element at last
    list.append( )
-- Remove element from last
    list.pop()
```

If-elif-else statement

```
if number > 0:
    print(”Number is positive !!”)
elif number == 0:
    print(”Number is 0”)
else :
    print(”Number is Negative !!”)
```

For loop

```
for i in range(5):
    print(i)     #print 0 to 4
```

While loop

```
i = 0
while i <= 5 :
    print(i)
    i = i + 1
```

Arithmetic Operators

+ for Addition
- for Substraction
* for Multiplication
/ for Division
% for Modules
** for Exponentiation
// for Floor Division

Comparision Operators

== is equal to
!= not equal to
< less than
> Greater than

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