

First Edition.

# Python Cheat Sheet

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# First Program in Python

```
print("Hello World")
```

## Comment in Python

## Variable

```
name = "PyHub Blog" # "name" is a varriable  
print(name)
```

## Common 3 Data Types

- Integer
- String
- Float

Getting the Data Type using `type()` function

```
mydata = 10  
type(mydata)  
<class 'int'>
```

```
mydata = "10"  
type(mydata)  
<class 'str'>
```

```
mydata = 10.0  
type(mydata)  
<class 'float'>
```

# Mathematics Operation Example

```
num1 = input("Enter the first number: ")
num2 = input("Enter the second number: ")

num1 = int(num1)
num2 = int(num2)

result = num1 + num2
print("Result is: ", result)
```

## List

```
friends_list = ["Tahsin", "Likhon", "Imtiaz", "Uzzal", "Efaz"]
print(friends_list)
```

The `len()` function returns the number of items in an object. (Source: w3schools)

```
friends_list = ["Tahsin", "Likhon", "Imtiaz", "Uzzal", "Efaz"]
print(friends_list[0])
```

\*The list index starts with 0 in Python.

## Conditional Logic

### Example no. 1:

```
marks = input("Enter your marks: ")
marks = int(marks)

if marks >= 80:
    grade = ("A+")
elif marks >= 70:
```

```

    grade = ("A")
elif marks >= 60:
    grade = ("A-")
elif marks >= 50:
    grade = ("B")
else:
    grade = ("F")

print("Your grade is: ", grade)

```

Example no. 2:

```

num1 = input("Enter first number: ")
num2 = input("Enter second number: ")
num3 = input("Enter third number: ")

num1 = int(num1)
num2 = int(num2)
num3 = int(num3)

if num1 > num2:
    max = num1
else:
    max = num2
if num3 > max:
    max = num3
print("Max number is: ", max)

```

Example no.3:

```

num = input("Enter an integer: ")
num = int(num)

if num % 2 == 0:
    result = "Even"
else:
    result = "Odd"
print("This number is: ", result)

```

## For Loop

```
for i in range(5):  
    print("Send Message")
```

## While Loop

```
count = 0  
while (count < 10):  
    count = count + 1  
    print("Send Message")
```

## Tuple

```
fruits = ('onion', 'potato', 'ginger', 'cucumber')  
type(fruits)
```

## Set in Python

```
fruits = {'orange', 'banana', 'apple', 'apple'}  
type(fruits)
```

\*you can't access elements in set using index numbers

# Dictionary

```
my_info = {'name' : 'Sakhawat Hossain', 'nickname' : 'Rodro', 'blog' :  
'https://pyhub-blog.com'}
```

```
print(my_info['name']) #access item in dictionary without index  
number
```

## Exercise

1. Python program to add two numbers
2. Maximum of two numbers in Python
3. Python Program for factorial of a number
4. Python Program to check Armstrong Number
5. Python Program for Program to find area of a circle
6. Python program to print all Prime numbers in an Interval
7. Python program to check whether a number is Prime or not