# Python Programming

**Presented by**

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# Statements

Statement is a **unit of code** that python interpreter can execute.
There are two types of statements
Print statements
Assignment statements

Ex:
 print("Hello")                **o/p   Hello  10**
 x=10
 print(x)

# Expressions

2*y+5 // this is an expression

Expression is a combination of values, operators and operands.

It can be a part of a statement

a=2*y+5                # 2,y and 5 are operands * and + is operator

We can perform arithmetic expressions directly in python

 a=2

 b=4

 print(b-a)

 print(b/a)

# Input function

If you want to take a value for the variable from user you have to use input operator

When this function called program stopped and waits for input from the keyboard after receiving the input it resumes the program.

 x=input("what is your age:")

Print("your age is", x)

Input returns whatever user typed as a string.

Ex:- add 2 numbers (input taken from keyboard)

Step1: ask user  for two input

Step2: perform addition

Step3: print the result

 num1= input("number 1:")

 num2=input("number 2:")

 sum=num1+num2

 print(sum)

It returns// 1210 //two strings are concatenated

Change**: sum=int(num1)+int(num2)**

# Operator Precedence chart

If an expression contains more than one types of operator then which operator will perform first. In other words who will get the priority

This can be done using operator precedence chart

Every operator having the precedence value

\*\*     Exponent operator

~ + -   unary plus, minus, negation

 **\* / % //    multiplication, division, modulo, floor division**

+ - binary addition, subtraction

<< >> bitwise shift operators

&    bitwise and

|  ^ bitwise OR, bitwise XOR

< <= > >= Comparison operators

= =  !=        equality operator

= += \*= -= /=   Assignment operator

 is, is not identity operator

In,  not in Membership operator

 and, or, not : logical operator

# Associativity

If the expression consist of multiple operators of **same precedence** than we have to follow left to right associativity.

Ex:-

A=5*3+4-5

A=15+4-2

A=19-2

A=17

Ex:-

b= 20*10-5/2+100

C=5**2-10//2

C=20

Thank you!