**Python for Beginners:**

**Example number 1:**

**Input: print (“Nallendiran”)**

**Output: Nallendiran**

**Example number 2:**

**Input: print (“Hello World”)**

**Output: Hello World**

**1.Variables?**

**Input:** a=10

b=10

print (a+b)

**Output:** 20

**Notes: a and b are called variables**.

**2.Datatypes:**

a). **Numbers** are called as **integer type.**

b). **Words** are called as **String type**.

**Program 1: Integer**

**Input:**

**a=10**

**print (type(a))**

**Output:**

**<class ‘int’>**

**Program 2: String**

**Input:**

**a=”Nallendiran”**

**print(type(a))**

**Output:**

**<class ‘str’>**

**Notes: str – string, int – integer.**

This code is **print (type(a))** used to identify the **integer type** and **string type.**

**3.Operator.**

In python we have more operators.

Example we take one simple program.

Input:

a=10

b=20

c=a+b

print(c)

Output:

30

Here from above program in input – (=), (+) equal to and plus are the operators.

**Notes: We have more type of operators are there.**

**4.Casting.**

**Simple example for string concatenation. (concatenation means combine)**

Below simple program input for our example.

**Input:**

**a="10"**

**b="20"**

**c=a+b**

**print(c)**

**Output:**

**1020**

**If you use double “quotation” in integer(number). The integer is converted into string(word).** It is simply called as **string concatenation**, where two strings (a and b) are **combined**. So the output displayed as 1020.

b).**Explicit Casting**

**a = "10"**

**b = "20"**

**c = int(a) + int(b) Here we cast the strings to integers**

**print(c)**

**Output: 30**

**(or)**

**You can use below program also**

**a = int ("10") Here we cast the strings to integers**

**b = int ("20") Here we cast the strings to integers**

**c = a+b**

**print(c)**

**Output: 30**

**b). Now we will see How to get Input from user?**

Simple program example for **How to get Input from user?**

**Program Input:**

**a=input ()**

**print(a)**

**Output:**

30

30

This program is commonly referred to as a **"program to get input from the user."** It simply captures and displays user input. It simply captures and displays user input.

a=input ()

b=input ()

c=a+b

print(c)

**In python we need to know BOADMAS Rule.**

**BOADMAS RULE:**

**B 🡪 Brackets (), {} , [].**

**O 🡪 Order(Roots and Powers) / of**

**D 🡪 Division** ÷

**M 🡪 Multiplication x**

**A 🡪 Addition +**

**S 🡪 Subtraction –**

**Example to solve the sum:**

**Brackets:**

**½ [ { -3 (1 + 2)} 10]**

½ [ {-3x3}10]

½ [ -9x10]

½ [-90]

**Answer: -45**