

# User Input

```
In [2]: user = input("Enter your name: ")
```

Enter your name: Ahmed

```
In [4]: # Input from user  
Number = input("Enter your number: ")
```

Enter your number: 67

```
In [5]: first_num = input("Enter your number: ")  
second_num = input("Enter your number: ")
```

Enter your number: 30  
Enter your number: 20

```
In [6]: print(first_num)  
print(second_num)
```

30  
20

```
In [8]: Sum = first_num + second_num  
  
print(Sum)  
type(Sum)
```

3020

Out[8]: str

```
In [12]: # type() function  
type("4")
```

Out[12]: str

```
In [13]: type(second_num)
```

Out[13]: str

```
In [14]: first_num
```

Out[14]: '30'

```
In [13]: 7 + 6.5
```

Out[13]: 13.5

```
In [14]: 3+ 3 +3j
```

Out[14]: (6+3j)

In [15]: `7.3 + 5 + 5j`

Out[15]: `(12.3+5j)`

In [12]: `first_num + second_num`

Out[12]: `'3020'`

## Type Conversion

**Implicit:** Auto type conversion by language.

**Explicit:** Manual type conversion using functions/methods.

In [15]: `# Implicit Vs Explicit`  
`print(5 + 5.6) # Implicit: int + float → float`  
`print(type(5), type(5.6)) # Show types: int, float`  
`print(4 + '4') # Error: no implicit int + str`

10.6

<class 'int'> <class 'float'>

-----  
**TypeError** Traceback (most recent call last)  
 Cell In[15], line 4  
 2 print(5 + 5.6) # Implicit: int + float → float  
 3 print(type(5), type(5.6)) # Show types: int, float  
 ----> 4 print(4 + '4')

**TypeError:** unsupported operand type(s) for +: 'int' and 'str'

In [18]: `# Explicit`  
`# str to int`  
`int("4")`  
`# int to str`  
`str(4)`  
`# float`  
`float(4)`

Out[18]: `4.0`

In [19]: `# int`  
`int(45.3)`

Out[19]: `45`

In [20]: `float(53)`

Out[20]: `53.0`

In [18]: `str(23)`

Out[18]: `'23'`

```
In [24]: bool(-56)
```

```
Out[24]: True
```

```
In [24]: complex(10)
```

```
Out[24]: (10+0j)
```

```
In [25]: list("Atharva")
```

```
Out[25]: ['A', 't', 'h', 'a', 'r', 'v', 'a']
```

```
In [26]: tuple("Sahil")
```

```
Out[26]: ('S', 'a', 'h', 'i', 'l')
```

```
In [27]: set("Atharva")
```

```
Out[27]: {'A', 'a', 'h', 'r', 't', 'v'}
```

```
In [ ]:
```

```
In [50]: int(a)
```

```
Out[50]: 4
```

```
In [23]: a
```

```
Out[23]: 4.5
```

```
In [28]: num_1 = input("Enter a number: ")  
num_2 = input("Enter a number: ")
```

```
Enter a number: 55
```

```
Enter a number: 45
```

```
In [29]: Sum = int(num_1) + int(num_2)  
print(Sum)
```

```
100
```

```
In [34]: first_name = input("Enter your name: ")  
last_name = input("Enter your name: ")  
  
full_name = first_name + " " + last_name  
print(full_name)
```

```
Enter your name: Ahmed
```

```
Enter your name: Ali
```

```
Ahmed Ali
```

```
In [30]: first_num = int(input("Enter first number: "))
second_num = int(input("Enter second number: "))
result = first_num + second_num
print(result)
```

Enter first number: 25  
Enter second number: 35  
60

```
In [45]: first_name = input("enter your first name: ")
second_name = input("enter your second name: ")
```

enter your first name: Aditya  
enter your second name: R

```
In [46]: Result = first_name + " " + second_name
print(Result)
```

Aditya R

```
In [44]:
```

```
Out[44]: str
```

```
In [ ]:
```