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## Example Applications Using TypeCasting

Eg: str + str -> str [concatenation]

Int + int -> int [Addition]

### ***In Java***

Str + xxx → str

Xxx + str → str

### **In Python:**

Str + any type → Error

Any type + str → Error

Ex1:

```
x=10 #<class 'int'>
```

```
# print("x val is : "+x) str + int -> TypeError
```

```
print("x val is : "+str(x) ) #str + str -> str
```

Eg2:

```
sno=10 #<class 'int'>
```

```
sname="Ramesh" #<class 'str'>
```

```
marks=98.3445 #<class 'float'>
```

```
age=45 #<class 'int'>
```

#Output:

```
print("sno is : "+str(sno) ) #sno is : 10
```

```
print("sname is Mr|Mrs."+sname) #sname is Mr|Mrs.Ramesh
```

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```
print("marks is : "+ str(int(marks)) ) #Marks is : 98
print("age is : "+ str(not bool(age)) )
```

**#App-1**

```
x=input("Enter a number ") #str
y=input("Enter a number ") #str
# a=x+y #str + str -> str invalid for addition
a=int(x)+int(y) #int + int -> int valid for addition
print("Result is : ",a)
```

**#App-2**

```
x,y=input("Enter x no "),input("Enter y no ")
a=int(x)+int(y)
print("Result is : ",a)
```

**#App-3**

```
'''
print("Enter 2 no's ")
x=input( )
y=input( )
a=int(x)+int(y)
print("Result is : ",a) '''
```

```
#App-4
print("Enter 2 nos ")
x=int( input( ) )
y=int( input( ) )
a=x+y
print("Result is : ",a)
```

Ex:

```
n=int( input("Enter a number ") )
s=n*n
c=n*n*n
print("SQ is : ",s)
print("CU is : ",c)
```

Eg:

```
#Finding Area of Circle
rad=float( input("Enter Radius ") ) #2
area=3.14*rad*rad
print("Area of Circle : ",area)
```

Ex :Finding Total and Avg Marks for 3 Sub

```
print("Enter 3 sub marks ")
```

```
m1,m2,m3=int(input()), int(input()),int(input())
```

```
tot=m1+m2+m3
```

```
avg=tot/3
```

```
print("Total is : ",tot)
```

```
print("Avg is : ",avg)
```