

How to reading the data from user input/keyboard/console?

we can read the data from user input/keyboard/console
in c-language by using scanf()

in c++ by using cin>>

in python2.x version by using input(), raw_input()

in python3.x version by using input() only

ex1:

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write a program to read the data from user input to perform the addition operation
in python2.x by using input()?

```
x=input("Enter x value: ")
y=input("Enter y value: ")
z=x+y
print(z)
```

Output:

```
Enter x value: 4
Enter y value: 5
9
```

ex2:

write a program to read the data from the user input to perform the addition
operation in python2.x by using raw_input()?

```
x=raw_input("Enter x value: ")
y=raw_input("Enter y value: ")
z=x+y
print(z)
```

Output:

```
Enter x value: 4
Enter y value: 5
45
```

ex3:

```
Enter x value: 4
Enter y value: 5
45
```

Output:

```
Enter x value: 4
Enter y value: 5
9.0
```

ex4:

write a program to read the data from the user input to perform the addition operation in python3.x by using input()?

```
x=input("Enter x value: ")
y=input("Enter y value: ")
z=x+y
print(z)
```

Output:

```
Enter x value: 4
Enter y value: 5
45
```

ex5:

```
x=int(input("enter x value: "))
y=complex(input("enter y value: "))
z=x+y
print(z)
```

Output:

```
Enter x value: 4
Enter y value: 5
(9+0j)
```

what is Type-Conversion/Type-Casting?

to convert one type of data into another type of data, is known as a Type-Conversion.

(or)

to convert one datatype into another datatype, is known as a Type-Conversion.

the type conversion can be categorized into two types, they are

- 1). Implicit Type Conversion
- 2). Explicit Type Conversion

Implicit Type Conversion:

the type conversion will be done automatically without programmer or developer interaction by explicitly, is known as a Implicit Type Conversion.

ex: by using input() in python2.x

Explicit Type Conversion:

the type conversion will be done with the help of programmer/developer by explicitly, is known as a Explicit Type Conversion.

ex: by using input() in python3.x
by using raw_input() in python3.x