

Casting

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(1) Definition of Casting - Casting is changing a variable from one datatype to another.

(2) Python Built-In Functions regarding Casting - open up the Python IDLE editor and type in the examples and see what happens

Function	Description	Examples
(1) int(x)	Converts x to an integer	a = int(1) # a will be 1
		y = int(2.8) # y will be 2
		z = int("3") # z will be 3
(2) float(x)	Converts x to a floating point number	a = float(1) #a will be 1.0
		y = float(2.8) # y will be 2.8
		z = float("3") #z will be 3.0
		w = float("4.2") # w will be 4.2
(3) str(x)	Converts x to a string representation	a = str("s1") # a will be 's1'
		y = str(2) #y will be '2'
		z = str(3.0) #z will be '3.0'
(4) chr(x)	Converts integer x to a character	y = chr(65) # y will become 'A'
(5) ord(x)	Converts character x to its integer value	z = ord('A') # z will become 65
(6) bin(x)	Converts integer x to a binary string	a = bin(8) # a will become '0b1000'
(7) hex(x)	Converts integer x to a hexadecimal string	b=hex(16) #b will become '0x10'

Casting - Question

Line 1: `### A Program which makes use of a built-in Casting function`

Line 2: `A = int(input("Enter a value "))`

Line 3: `print("You have entered " +str(A))`

QUESTION 1 Can you identify the lines where casting is being used and explain what is happening there.

Casting - Question & Answer

```
Line 1: ### A Program which makes use of a built-in Casting function  
Line 2: A = int(input("Enter a value "))  
Line 3: print("You have entered " +str(A))
```

QUESTION 1 Can you identify the lines where casting is being used and explain what is happening there.

ANSWER 1

- (1) Here two functions related to casting are used - these are str(x) and int(x).
- (2) In Line 2 the value entered in Python is assumed to be a string and the int function converts the entered value to an integer.
- (3) In Line 3 the integer a is converted to a string and the resulting value concatenated within the print function.

That's all for now folks!!