

















| | More on | Arithmetic Ope | rat | tions | | |
|---|--------------|----------------------|--------|---|----|--|
| | Symbol | Meaning | | Associativity | | |
| | + | Addition | Left | | | |
| | - | Subtraction | | Left | | |
| | * | Multiplication Left | | Left | | |
| | / | Division | | Left | | |
| | % | Remainder ("mod") | | Left | | |
| | ** | Exponentiation (powe | A w | Associativity matters hen you have the same | e | |
| P | recedence ru | les: P E - DM% AS | op | eration multiple times t tells you where you | 5. | |
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| Trick: Type Conversion You can convert a variable Use the type's <i>constructor</i> | 's type | |
|---|------------------------|-------------------|
| Conversion Function/Constructor | Example | Value Returned |
| int(<number or="" string="">)</number> | int(3.77) int("33") | 3 33 |
| float(<number or="" string="">)</number> | float(22) | 22.0 |
| str(<any value="">)</any> | str(99) | "99" |
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| Getting Input fro | om User | |
|--|------------------------------------|---|
| color = input("What | is your fav | vorite color? ") |
| Semantics: Sets the v | variable color | to the user's input |
| Ferminal: | Grabs e the user | very character up to presses "enter" |
| > python3 input_d What is your favo Cool! My favorit | emo.py rite color e color is | ? <mark>blue</mark> _light_ blue ! |
| | | |
| | | |



Restricting User's Inputs

```
>>> x = 7
>>> yourVal = input("My val is: ")
My val is: x
>>> print(yourVal)
х
>>> yourVal = eval(input("My val is: "))
My val is: x
>>> print(yourVal) What happened here?
>>> yourVal = int(input("My val is: "))
My val is: x
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
ValueError: invalid literal for int() with base 10:
'x'
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                                                    23
```



Identify the Parts of a Program



