

Python exercises 1

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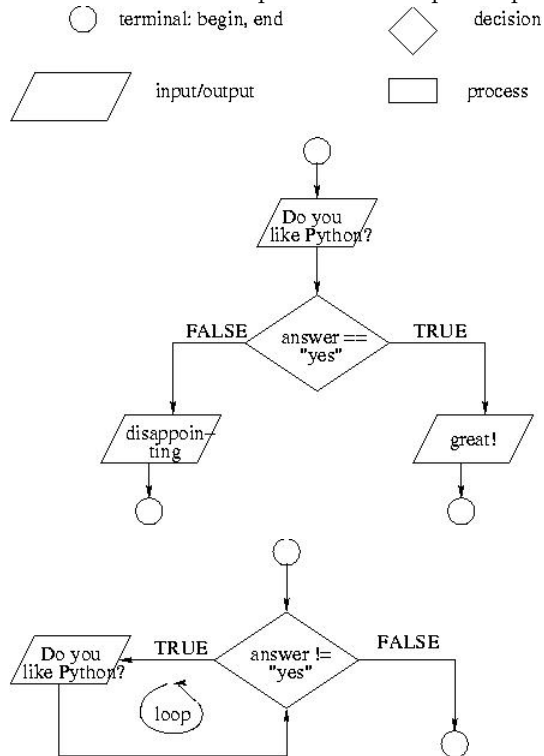
1 Simple arithmetic

1. $3/5 + 2$
2. $3/\text{float}(5) + 2$
3. $3./5 + 2$
4. $3/5 + 2.$
5. $3**2$
6. $3**(2+5)$
7. $(3**2)+5$
8. $3./5/2$
9. $3/5/2.$
10. $3/5./2$

2 Program flow

1. Make a 'for' loop that sums '1' hundred times.
2. Make a 'for' loop that sums the numbers from 1 to 100. Change the code to sum only the odd numbers.
3. Make a variable `word1='gateman'`. Make a for loop that inverts the letter order of `word1`.

4. Write the codes that produce the depicted program flows:



3 Script

Create a .py file with the following content and make sure you understand every line. Execute it.

```
#!/usr/bin/env python
#
# A program for numbers
#

a = 3 - 4 + 10
b = 5 * 6
c = 7.0/8.0
print "Hello World, these are the values:", a, b, c
print "Increment", a, "by one: "
a = a +1
print a
print "The sum of", a, "and", b, "is?"
a = ' are '
b = "you"
c = "years old. Don't you think?"
d = b + a
number = input("Input a number ")
print d, number, c
```

4 Lists

Please open the file list1.py and follow the instructions. After you are done, there is also list2.py.