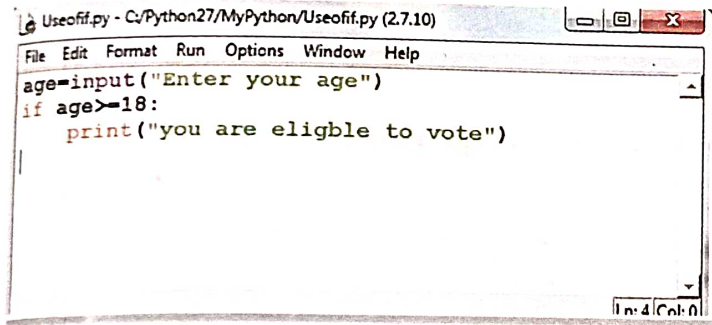# Let's Try

EA ⟨CT⟩

Write the output of the following:
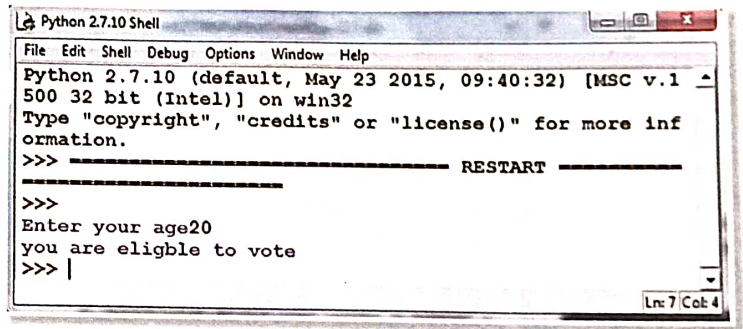
1. math.fabs(-45.67)   =   _____
2. math.ceil(87.54)   =   _____
3. math.floor(78.34)   =   _____
4. math.truc(78.2)   =   _____
5. math.factorial(5)   =   _____
6. math.fmod(13, 2)   =   _____
7. math.pow(25,2)   =   _____
8. math.sqrt(4)   =   _____

Example 1: Write a program to check whether the entered age of a person is >=18 or not. If age is >=18, display a message 'You are eligible to vote'.

```
Useofif.py - C:/Python27/MyPython/Useofif.py (2.7.10)
File Edit Format Run Options Window Help
age=input("Enter your age")
if age>=18:
    print("you are eligble to vote")

                                                Ln: 4 Col: 0
```
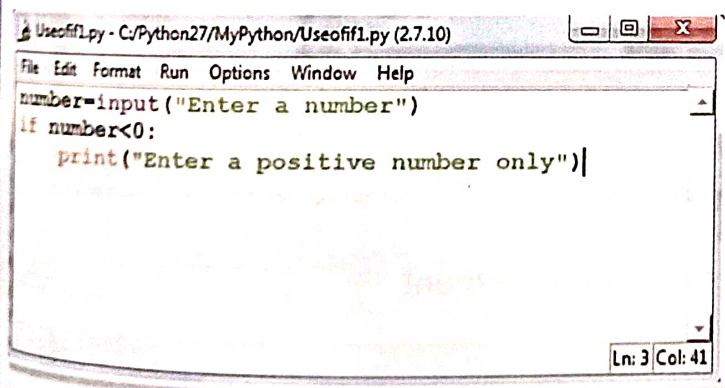
(Input)

```
Python 2.7.10 Shell
File Edit Shell Debug Options Window Help
Python 2.7.10 (default, May 23 2015, 09:40:32) [MSC v.1
500 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more inf
ormation.
>>> ============================ RESTART ============
============================
>>>
Enter your age20
you are eligble to vote
>>>
                                                Ln: 7 Col: 4
```
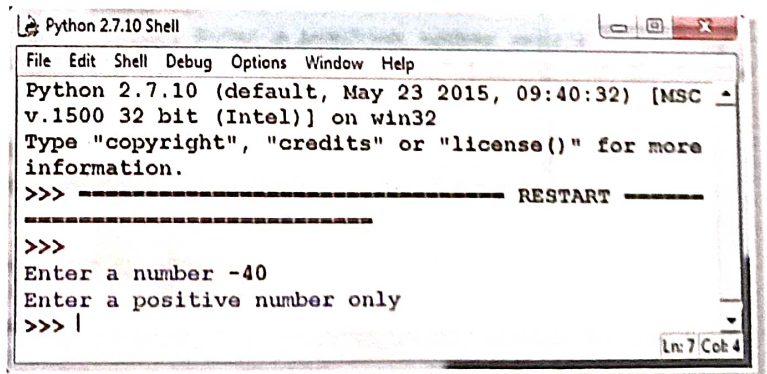
(Output)

⌃ Fig. 8.12 use of *if* statement

Example 2: Write a program to check whether the entered number is positive or not. If the number is negative, display a message 'Enter a positive number'.

```
Useofif1.py - C:/Python27/MyPython/Useofif1.py (2.7.10)
File Edit Format Run Options Window Help
number=input("Enter a number")
if number<0:
    print("Enter a positive number only")

                                                Ln: 3 Col: 41
```
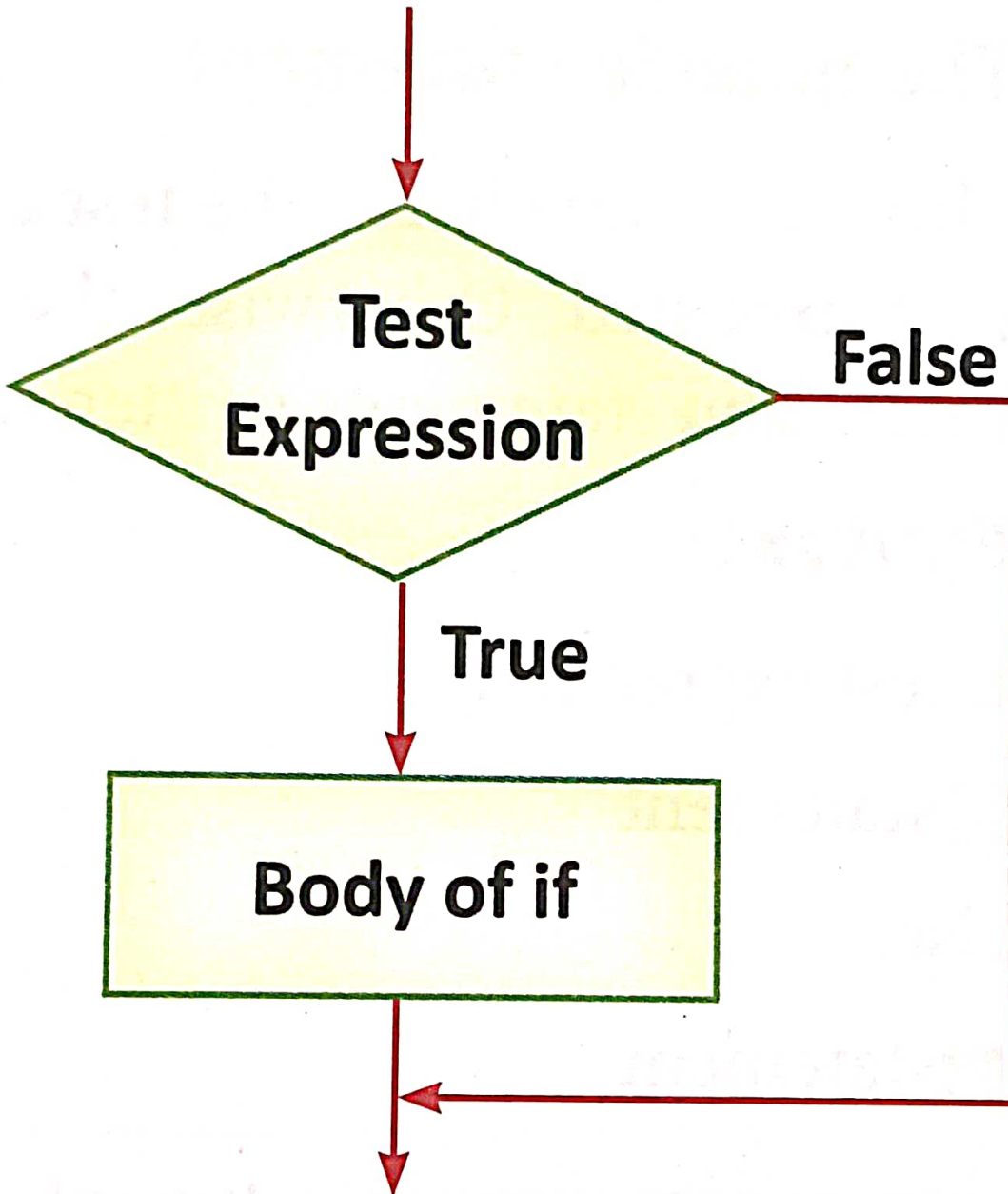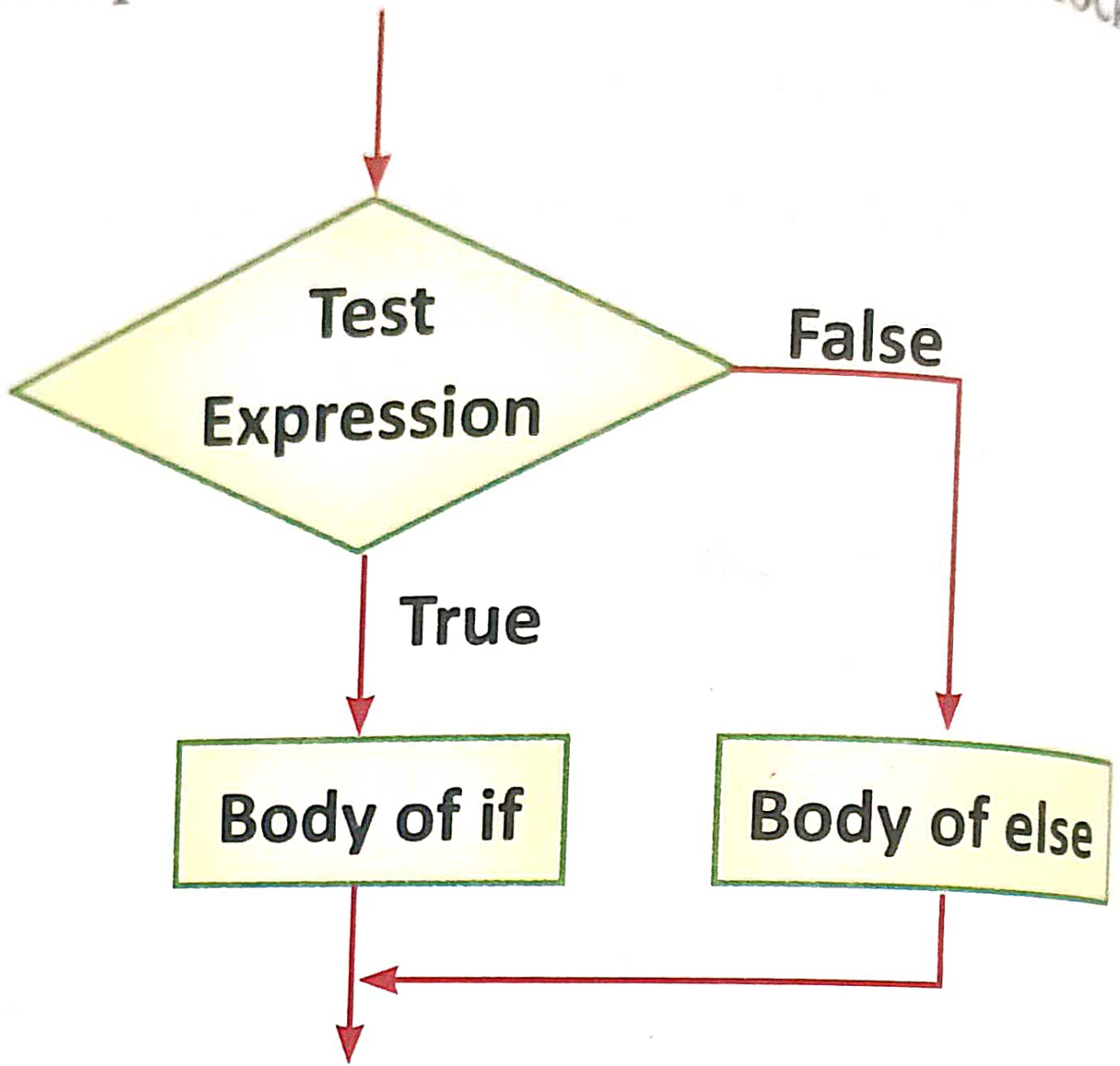
(Input)

```
Python 2.7.10 Shell
File Edit Shell Debug Options Window Help
Python 2.7.10 (default, May 23 2015, 09:40:32) [MSC
v.1500 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more
information.
>>> ============================ RESTART ========
============================
>>>
Enter a number -40
Enter a positive number only
>>>
                                                Ln: 7 Col: 4
```

(Output)

⌃ Fig. 8.13 use of *if* statement

⌃ Fig. 8.11 execution of *if* statement

the test expression

else

d.

Test Expression

False

True

Body of if

Body of else

⌃ **Fig. 8.14** execution of *if...else* statement
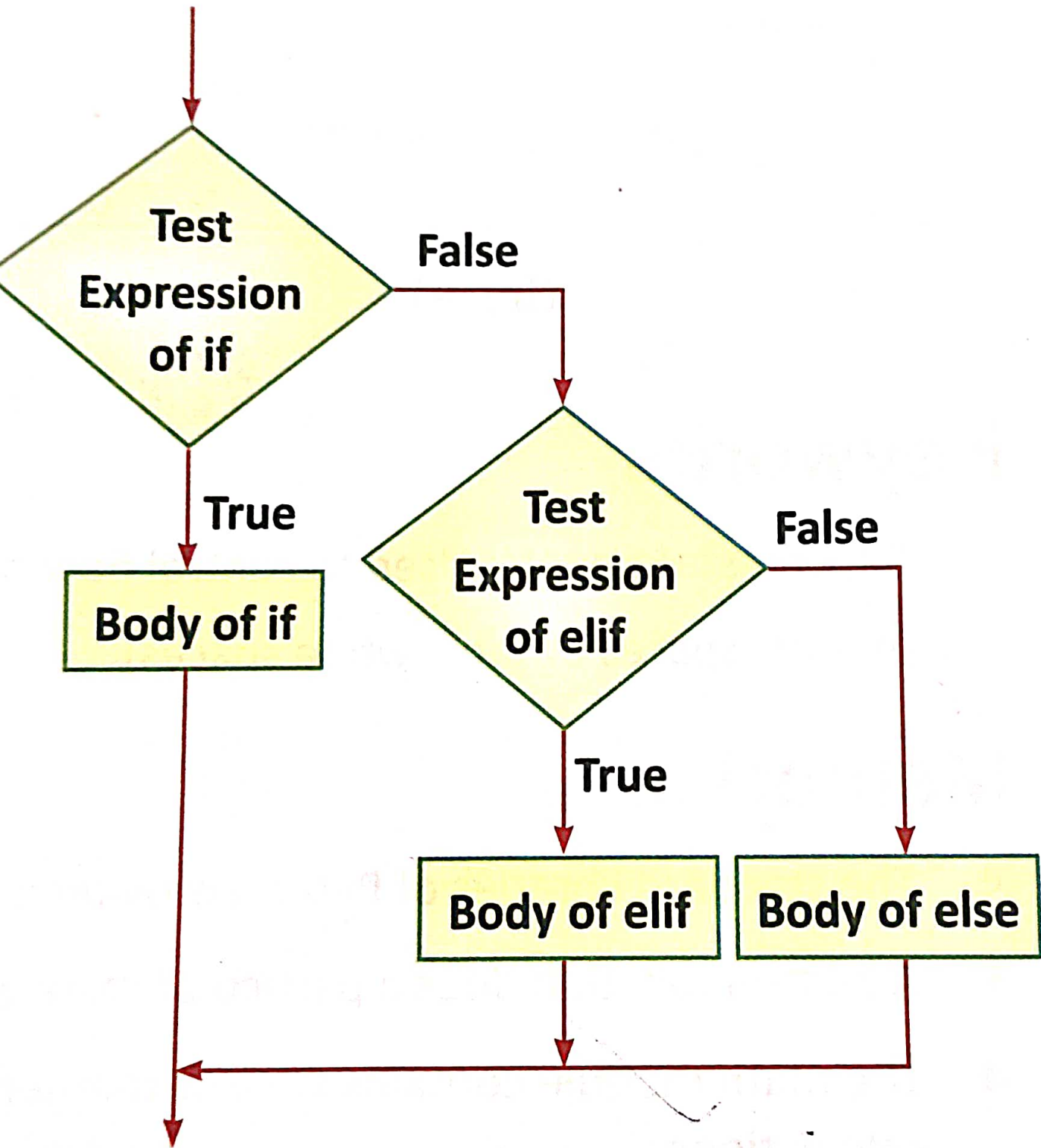
Fig. 8.17 execution of *elif* statement